2004

NETWORK CONNECTIVITY SYSTEMS

SIGNAMAX™
CONNECTIVITY SYSTEMS

SIGNAMAX™
CONNECTIVITY SYSTEMS

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Keeping Your World

In today's technology-driven environment, the backbone of your organization is your network — keeping you connected to staff, customers, suppliers, and the world at large. To run a successful enterprise, you need a network that's reliable, rapid, and ready to accommodate the inevitable growth and change you'll experience. And the company that can deliver network solutions that's up to those challenges is Signamax Connectivity Systems.

The Signamax mission is to provide for your total end-to-end network connectivity needs- from the server to the user's workstation. As your single source for the full range of products needed for reliable connectivity, Signamax delivers the benefits you demand — including greater ease of use, flexibility, and performance.

The comprehensive Signamax Network Connectivity Systems line offers a wide range of high-performance, cost effective options for Ethernet, Fast Ethernet, and Gigabit Ethernet applications. Our Media Converters enable mixed media and speeds on a network for optimum performance. Signamax managed and unmanaged Switches are offered from 5 to 24 ports with support for 10/100Base to 1000Base speeds with both copper and fiber terminations. Our Network

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Connected.

Interface Cards provide access to the network from the server to the workstation supporting all popular applications. From the smallest home office project to the largest, enterprise-wide, fiber-to-the-desktop installation, Signamax has the breadth of network solutions to meet the demands for high-speed, high bandwidth connectivity.

To provide the highest quality and reliability, Signamax Network Connectivity Systems products are designed with performance as the priority, engineered to stringent specifications, built with pride — then tested to ensure they meet or exceed applicable industry standards. The strength and integrity of our product line is backed by the skills and experience of our sales, technical support and network design staff — along with the resources of our global parent company, Advanced Electronic Support Products, Inc. (Nasdaq: AESP).

Signamax is dedicated to providing high-quality, high-performance, high-value network solutions — all backed by long-term performance warrantees that provide the peace of mind you require. So if you're ready to keep your world connected — reliably and rapidly, both now and in the future — turn to the company that can make it happen: Signamax Connectivity Systems.

NETWORK CONNECTIVITY PRODUCTS

SIGNAMAX™
CONNECTIVITY SYSTEMS

Media Converters

A

18-Bay Rack Mount Managed Media Converter Chassis

Managed Switching Media Converters

Switching Converters with Link Fault Signaling

Switching Single Fiber WDM Media Converters with Link Fault Signaling

Switching Fiber Media Converters

Gigabit Ethernet Fiber Media Converters

Fiber Optic Media Converters

Singlemode to Multimode Converters

12-Channel Fiber Optic Media Converters

Serial Data Fiber Media Converters

Serial Data to Ethernet Media Converters

8-Bay Media Converter Rack Mount Chassis

16-Bay Media Converter Rack Mount Chassis

The Signamax™ 065-1480 18-Bay Managed Media Converter Rack Mount Chassis provides full SNMP management capabilities for mission-critical installations. The 065-1480 provides 18 bays of space for all 065-14xx series Signamax managed media converters in a standard 2U high enclosure. It also includes the 065-1481 Management Module, which communicates with the Signamax 065-14xx series media converters on the chassis' backplane. It provides full status information on the individual media converter's ports and allows the advanced management capabilities of the 065-14xx series managed media converters to be switched on or off remotely and individually. Diagnostic testing from a centralized location avoids unnecessary technician dispatch. Alarm traps can be sent to up to five remote IP addresses

18-Bay Rack Mount Managed Media Converter Chassis

Managed Media Converter Rack Mount Chassis

PART NO.	DESCRIPTION
065-1480	18-Bay Rack Mount Managed Media Converter Chassis System; includes 065-1481 SNMP Management Module, 2 Redundant AC Power Supplies, & 3 Fan Cooling Assemblies
065-1480DC	18-Bay Rack Mount Media Converter Chassis System; includes 065-1481 SNMP Management Module, 2 Redundant -48 V DC Power Supplies, & 3 Fan Cooling Assemblies
065-1481	Spare SNMP Management Module
AC-1480	Spare Redundant AC Power Supply for 18-Bay Chassis
DC-1480	Spare Redundant -48 V DC Power Supply For 18-Bay Chassis
1480FAN	Spare Individual Fan Assembly For 18-Bay Chassis

simultaneously, allowing integration within a variety of Network Management Systems. In-band and out-of-band management are supported by local and remote Telnet console Command Line Interface (CLI), a web browser-based Graphical User Interface (GUI), and a menu-driven interface.

Two fully redundant, load-sharing power supplies are standard, to ensure continued availability of the media converters in the event of a power supply failure. Either power supply is hot-swappable and can be taken off-line and removed from the unit while the media converters are operating; the media converters themselves are also hot-swappable. The 065-1480 also ships standard with three fully redundant, load-sharing cooling fans to ensure reliable operation.

SPECIFICATIONS

065-1480 Chassis

CAPACITY
Eighteen bays for up to eighteen 065-14xx Media Converters

CONSTRUCTION
SECC zinc-coated steel

COOLING
One 42.5 cfm rear-mounted fan, plus one fan for each of the two redundant power supplies.

LED STATUS INDICATORS
Power (2x): Power supply on-line
FAN (3X): Fan status

DIMENSIONS
17.3"W x 10.9"D x 3.5"H
(440 mm x 276 mm x 90 mm)
2 standard rack units

WEIGHT
Approximately 29.7 pounds (13.5 kilograms), fully loaded

POWER SUPPLIES - LOAD SHARING AND HOT-SWAPPABLE
(Each; 2 supplied as standard equipment)
Input:
Model 065-1480: 90-240 Volts AC, 47-63 Hz.
Model 065-1480DC: -48 Volts DC
Output:
Normal +12 Volts DC
(Min. +11.88 Volts, Max. +12.12 Volts, 7.0 Amps)
Total Regulation:
+/- 1.0%, Rip. 120 mV, Load 1.0%, Line 0.5%
Overload Protection:
All outputs protected against short circuit conditions; automatic recovery
Over-Voltage Protection:
Output level exceeding 13.2 Volts causes shutdown - automatic recovery
Temperature:
Operating: 32° - 104°F (0° - 40° C)
Storage: -13°F to 158°F (-25°C to 70°C)
EMI: FCC Part 15 Class A, CE Class A
Safety: UL 1950 Listed

WARRANTY
Lifetime, including power supplies

065-1481 Management Module

PROTOCOLS SUPPORTED
TCP, UDP, ICMP, IP, ARP

SERVICE
HTTP, Telnet, SNMP, TFTP

PORTS
DB-9 Serial Data (x1), RJ-45 10/100BaseT/TX (x1)

STATUS LEDS
Power, System, Alert, 10/100 speed, Link/ACT

MIB SUPPORTED
MIB II, RMON

TEMPERATURE
Storage: -40°F - 176°F (-40°C - 80°C)
Operating: 32°F - 122°F (0°C - 50°C)

MAXIMUM ALTITUDE
10,000 ft.

DIMENSIONS
6.75"L x 2.72"W x 0.85"H
(171.5mm x 69mm x 21.5mm)

WEIGHT
0.33 pounds *(115 grams)*

COMPLIANCE
FCC Part 15 Class A, CE Class A

WARRANTY
Lifetime

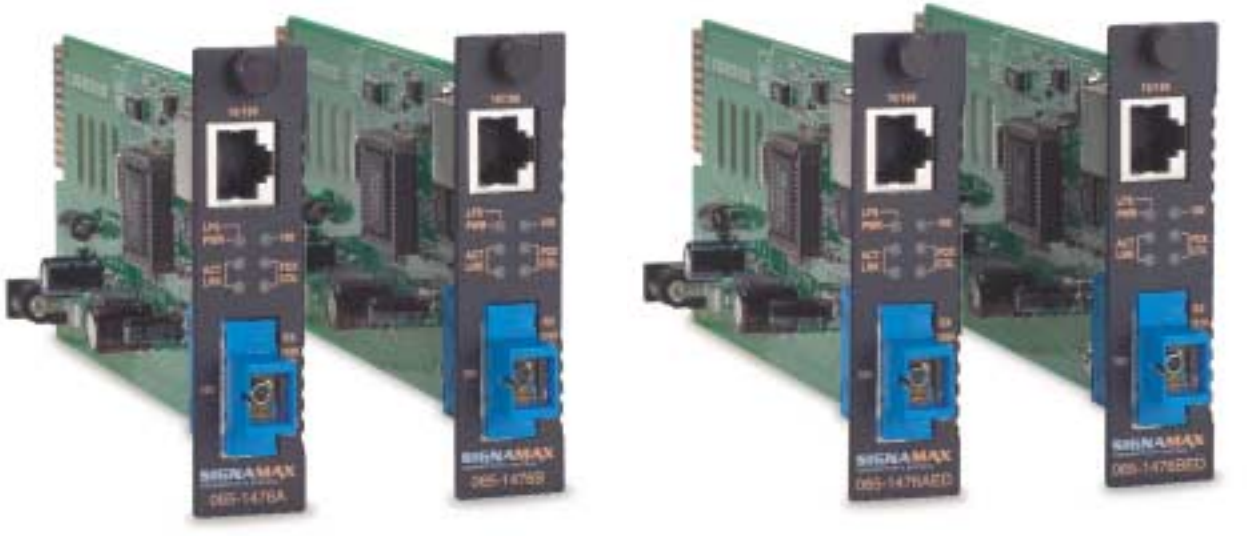
Signamax Connectivity Systems' 065-1400 series Managed Switching Media Converters are modular SNMP-managed media converter cards available with a variety of interfaces to provide copper-to-fiber conversion for mission-critical networks. They are used with the 065-1480 Managed Media Converter Rack Mount Chassis to enable network managers to remotely monitor the status of their entire network via RJ-45 (in band) or RS-232 (out of band) connection to the 065-1481 series SNMP Management Module included with every Signamax 065-1480 chassis system. Up to

Managed Switching Media Converters

10/100 Switching Managed Media Converters

PART NO.	DESCRIPTION
065-1400	10/100BaseT/TX to 100BaseFX Converter ST Mulitmode
065-1410	10/100BaseT/TX to 100BaseFX Converter SC Multimode
065-1420	10/100BaseT/TX to 100BaseFX Converter SC Singlemode (30 km span)
065-1420ED	10/100BaseT/TX to 100BaseFX Converter SC Singlemode (60 km span)
065-1470	10/100BaseT/TX to 100BaseFX Converter VF-45 Multimode
065-1472	10/100BaseT/TX to 100BaseFX Converter MT-RJ Multimode
065-1474	10/100BaseT/TX to 100BaseFX Converter LC Multimode
065-1476A	10/100BaseT/TX to 100BaseFX Converter WDM Singlemode (20 km span)
065-1476B	10/100BaseT/TX to 100BaseFX Converter WDM Singlemode (20 km span)
065-1476AED	10/100BaseT/TX to 100BaseFX Converter WDM Singlemode (30 km span)
065-1476BED	10/100BaseT/TX to 100BaseFX Converter WDM Singlemode (30 km span)

eighteen managed media converters are supported in a single 2U-high chassis. Equipped with Link Fault Signaling (LFS) and Loopback Testing capabilities, they extend the enterprise LAN configuration range up to 60 km while simultaneously minimizing downtime expense and extending the lifespan and reach of existing copper-based managed switches.



SPECIFICATIONS

APPLICABLE STANDARDS
IEEE 802.3 10BaseT
IEEE 802.3u 100BaseTX
IEEE 802.3u 100BaseFX

FIXED PORTS
1 twisted-pair port meeting IEEE 802.3 10BaseT & IEEE 802.3u 100BaseTX standard specifications; Category 5 or better cable, 100 meters maximum distance for 100BaseTX, Category 3 or better cable, 100 meters maximum distance for 10BaseT **PLUS** 1 fiber optic port meeting IEEE 802.3u 100BaseFX standard specification; 62.5/125 or 50/125 micron multimode fiber optic cable, 2,000 meters maximum distance **OR** 1 SC duplex fiber optic port meeting IEEE 802.3u 100BaseFX standard specification; 9/125 micron singlemode fiber optic cable, spanning: 20 kilometers maximum distance (model 065-1420) **OR** 40 kilometers maximum distance (model 065-1420ED) **OR** 60 kilometers maximum distance (Model 065-1420XLD) **OR** 1 WDM fiber optic port meeting IEEE 802.3u 100BaseFX standard specification; 9/125 micron singlemode fiber optic cable, spanning: 20 kilometers maximum distance (models 065-1476A and 065-1476B) **OR** 1 WDM fiber optic port meeting IEEE 802.3u 100BaseFX standard specification; 9/125 micron singlemode fiber optic cable, spanning: 40 kilometers maximum distance (Models 065-1476AED and 065-1476BED)

PERFORMANCE
Latency: < 0.25 µs (LIFO)
Throughput: 148,809 pps (64-byte packets)

DIMENSIONS
6.75"L x 2.72"W x 0.85"H *(171.5mm x 69mm x 21.5mm)* (Fiber connector protrusion varies with model)

WEIGHT
0.33 pounds *(115 grams)*

POWER
External power supply; 12 Volts DC; 0.8 A (Supplied via 065-1480 chassis only) Power consumption: 2.8 Watts Maximum

OPERATING TEMPERATURE
0°C ~ 50°C (32°F ~ 122°F)

STORAGE TEMPERATURE
-20°C ~ 70°C (-4°F ~ 158°F)

OPERATING HUMIDITY
10 ~ 80%, non-condensing

STORAGE HUMIDITY
5 ~ 90%, non-condensing

EMISSIONS
FCC part 15 Class A, CE Mark

WARRANTY
Lifetime

Signamax Connectivity Systems' Switching Media Converters with Link Fault Signaling provide the means for an SNMP-Managed switch to recognize a failure on a fiber channel or twisted-pair connection, enabling the switch to automatically route to a backup path if the connected switch is equipped with Spanning Tree Algorithm. This intelligence maximizes the power of managed switches, and enables fail-safe design solutions for complex networks. These converters also extend the maximum singlemode fiber distance, spanning over 46 miles with the 065-1120XLDLFS model.

Switching Converters with Link Fault Signaling

Switching Fiber Optic Media Converter Products

PART NO.	DESCRIPTION	FIBER TYPE
065-1100LFS	10/100BaseT/TX to 100BaseFX Converter	ST Multimode
065-1110LFS	10/100BaseT/TX to 100BaseFX Converter	SC Multimode
065-1170LFS	10/100BaseT/TX to 100BaseFX Converter	VF-45 Multimode
065-1172LFS	10/100BaseT/TX to 100BaseFX Converter	MT-RJ Multimode
065-1174LFS	10/100BaseT/TX to 100BaseFX Converter	LC Multimode
065-1120LFS	10/100BaseT/TX to 100BaseFX Converter	SC Singlemode (15 km span)
065-1120EDLFS	10/100BaseT/TX to 100BaseFX Converter	SC Singlemode (40 km span)
065-1120XLDLFS	10/100BaseT/TX to 100BaseFX Converter	SC Singlemode (75 km span)
065-11DINMT	DIN rail mounting bracket for 065-11xx series media converters	

The built-in 10/100 switch enables the fiber cable connection to operate at 100 Mbps connected to either a 10BaseT or a 100BaseTX network, while remaining completely 100BaseFX standard-compliant. Fiber connection can also operate in full duplex mode whether the RJ-45 port is connected to a full duplex switch or a half duplex hub, with the built-in switch providing the network segmentation that permits the maximum fiber distance. Each Media Converter provides a 10/100BaseT/TX auto-negotiating RJ-45 twisted-pair connector port featuring store-and-forward switching architecture. Auto-MDIX capability on the twisted-pair port allows for convenient connections. A USB power connector on the rear panel provides additional power options where AC power outlets are unavailable.

SPECIFICATIONS

APPLICABLE STANDARDS
IEEE 802.3 10BaseT
IEEE 802.3u 100BaseTX
IEEE 802.3u 100BaseFX

FIXED PORTS
1 Auto-MDIX twisted-pair port meeting IEEE 802.3
10BaseT & IEEE 802.3u 100BaseTX standard specifications; Category 5 or better cable, 100 meters maximum distance for 100BaseTX, Category 3 or better cable, 100 meters maximum distance for 10BaseT
plus
1 fiber optic port meeting IEEE 802.3u 100BaseFX standard specification; 62.5/125 or 50/125 micron multimode fiber optic cable, 2,000 meters maximum distance
or
1 fiber optic port meeting IEEE 802.3u 100BaseFX standard specification; 9/125 micron singlemode fiber optic cable, spanning: 15 kilometers maximum distance (Model 065-1120LFS)
or
40 kilometers maximum distance (Model 065-1120EDLFS)
or
75 kilometers maximum distance (Model 065-1120XLDLFS)

PERFORMANCE
Latency: < 4.2 µs (LIFO)
Throughput @ 100Base: 148,809 pps (64-byte packets)

LED INDICATORS
Per unit - Power status, RJ-45 port speed
Per Port -LNK/ACT, FDX/COL
Six LEDs total

PHYSICAL CHARACTERISTICS
Case dimensions: 4.33"L x 3.19"W x 0.9"H *(110mm x 81mm x 23mm)*
Fiber connector protrusion varies with model.
Weight: 0.33 pounds *(150 grams)*
USB power connector on the rear panel optionally powers converter from computer's USB port.

SAFETY
UL Listed

Model
065-1100LFS

Model
065-1110LFS

Model
065-1170LFS

Model
065-1172LFS

Model
065-1174LFS

Model
065-1110LFS
(rear panel view)

Signamax Connectivity Systems' Switching Single Fiber Wave Division Multiplexing (WDM) Media Converters with Link Fault Signaling allow data normally carried over two strands of fiber optic cable to be carried over a single strand of fiber optic cable, utilizing two different light spectra to carry signals in both directions simultaneously. This technology doubles the capacity of a company's fiber optic network, allowing a carrier or an enterprise business to minimize its operational costs by eliminating or delaying the deployment of additional fiber optic capacity. These converters are available in singlemode only, and span distances of up to 40 kilometers (24.85 miles) with the 065-1176AEDLFS and 065-1176BEDLFS models.

Switching Single Fiber WDM Media Converters

Switching Single Fiber WDM Media Converters

PART NO.	DESCRIPTION	FIBER TYPE
065-1176ALFS	10/100BaseT/TX to 100BaseFX, SM/SC, 20 km, Tx=1310 nm; Rx=1550 nm	Simplex SC Singlemode
065-1176BLFS	10/100BaseT/TX to 100BaseFX, SM/SC, 20 km, Tx=1550 nm; Rx=1310 nm	Simplex SC Singlemode
065-1176AEDLFS	10/100BaseT/TX to 100BaseFX, SM/SC, 40 km, Tx=1310 nm; Rx=1550 nm	Simplex SC Singlemode
065-1176BEDLFS	10/100BaseT/TX to 100BaseFX, SM/SC, 40 km, Tx=1550 nm; Rx=1310 nm	Simplex SC Singlemode
065-11DINMT	DIN rail mounting bracket for 065-11xx series media converters	

Since WDM Switching Media Converters utilize two different light spectra with one end of a circuit transmitting on the other end's receive frequency (and vice versa), they must be used in A/B pairs. A circuit utilizing these converters would therefore use a single strand of singlemode fiber optic cable plus one each of the 065-1176ALFS and 065-1176BLFS, or one each of the 065-1176AEDLFS and 065-1176BEDLFS and 065-1176BLFS, depending upon the distance spanned. All Signamax WDM converters are equipped with Link Fault Signaling to provide the means for an SNMP-managed switch to recognize a failure on a fiber channel or twisted-pair connection, enabling the switch to automatically route to a backup path if the connected switch is equipped with Spanning Tree Algorithm. Each WDM Media Converter provides a 10/100BaseT/TX auto-negotiating RJ-45 twisted-pair connector port, and features store-and-forward switching architecture. Auto-MDIX capability on the twisted-pair port is also provided for convenient connections.

with Link Fault Signaling

SPECIFICATIONS

APPLICABLE STANDARDS
IEEE 802.3 10BaseT
IEEE 802.3u 100BaseTX
IEEE 802.3u 100BaseFX

FIXED PORTS
1 Auto-MDIX twisted-pair port meeting IEEE 802.3 10BaseT & IEEE 802.3u 100BaseTX standard specifications; Category 5 or better cable, 100 meters maximum distance for 100BaseTX, Category 3 or better cable, 100 meters maximum distance for 10BaseT
plus
1 WDM fiber optic port meeting IEEE 802.3u 100BaseFX standard specification; 9/125 micron singlemode fiber optic cable, spanning 20 kilometers maximum distance (models 065-1176ALFS and 065-1176BLFS)
or
1 WDM fiber optic port meeting IEEE 802.3u 100BaseFX standard specification; 9/125 micron singlemode fiber optic cable, spanning 40 kilometers maximum distance (models 065-1176AEDLFS and 065-1176BEDLFS)

PERFORMANCE
Latency: < 4.2 µs (LIFO) Throughput @ 100Base: 148,809 pps (64-byte packets)

LED INDICATORS
Per unit - Power status, RJ-45 port speed
Per Port -LNK/ACT, FDX/COL
Six LEDs total

PHYSICAL CHARACTERISTICS
Case dimensions:
4.33"L x 3.19"W x 0.91"H
(110mm x 81mm x 23mm)
Fiber connector protrusion varies with model.
Weight: 150 grams (0.33 pounds)
USB power connector on the rear panel optionally powers converter from computer's USB port.

SAFETY
UL Listed

Model
065-1176ALFS

Model
065-1176BLFS

Signamax Connectivity Systems' Switching Media Converters provide an intelligent solution for long distance connections between legacy 10BaseT networks and the newer 100Base Fast Ethernet or 1000Base Gigabit Ethernet networks. These converters are designed to handle a wide variety of fiber optic network applications and eliminate the 412 meter distance limitation when connecting hub-based sub-networks at 100BaseFX. They also extend the maximum singlemode fiber distance, spanning over 46 miles with the 065-1120XLD model.

Built-in 10/100 or 10/100/1000 switch enables the fiber cable connection to operate at 100 Mbps connected to either a 10BaseT or a 100BaseTX

Switching Fiber Media Converters

Switching Fiber Optic Media Converter Products

PART NO.	DESCRIPTION	FIBER TYPE
065-1100	10/100BaseT/TX to 100BaseFX Converter	ST Multimode
065-1110	10/100BaseT/TX to 100BaseFX Converter	SC Multimode
065-1170	10/100BaseT/TX to 100BaseFX Converter	VF-45 Multimode
065-1172	10/100BaseT/TX to 100BaseFX Converter	MT-RJ Multimode
065-1174	10/100BaseT/TX to 100BaseFX Converter	LC Multimode
065-1120	10/100BaseT/TX to 100BaseFX Converter	SC Singlemode (15 km span)
065-1120ED	10/100BaseT/TX to 100BaseFX Converter	SC Singlemode (40 km span)
065-1120XLD	10/100BaseT/TX to 100BaseFX Converter	SC Singlemode (75 km span)
065-1196	10/100/1000BaseT/TX to 1000BaseSX Converter	SC Multimode
065-11DINMT	DIN rail mounting bracket for 065-11xx series media converters	

network, while remaining completely 100BaseFX or 1000BaseSX standard-compliant. Fiber connection can also operate in full duplex mode whether the RJ-45 port is connected to a full duplex switch or a half duplex hub.

Each Media Converter provides a 10/100BaseT/TX auto-negotiating RJ-45 twisted-pair connector port (10/100/1000BaseT/TX for model 065-1196) featuring store-and-forward switching architecture. Built-in switch does the network segmentation to provide the maximum fiber distance. Now with Auto-MDIX capability on the twisted-pair port for more convenient connection.

SPECIFICATIONS

APPLICABLE STANDARDS
IEEE 802.3 10BaseT
IEEE 802.3u 100BaseTX
IEEE 802.3u 100BaseFX
IEEE 802.3ab 1000BaseT
IEEE 802.3z 1000BaseSX

FIXED PORTS
Models 065-1100/1110/1170/1172/1174/1120/1120ED/1120XLD:
1 Auto-MDIX twisted-pair port meeting IEEE 802.3 10BaseT & IEEE 802.3u 100BaseTX standard specifications; Category 5 or better cable, 100 meters maximum distance for 100BaseTX, Category 3 or better cable, 100 meters maximum distance for 10BaseT **PLUS** 1 fiber optic port meeting IEEE 802.3u 100BaseFX standard specification; 62.5/125 or 50/125 micron multimode fiber optic cable, 2,000 meters maximum distance **OR** 1 fiber optic port meeting IEEE 802.3u 100BaseFX standard specification; 9/125 micron singlemode fiber optic cable, spanning: 15 kilometers maximum distance (Model 065-1120) **OR** 40 kilometers maximum distance (Model 065-1120ED) **OR** 75 kilometers maximum distance (Model 065-1120XLD)
Model 065-1196:
1 Auto-MDIX twisted-pair port meeting IEEE 802.3 10BaseT, IEEE 802.3u 100BaseTX, & IEEE 802.3ab 1000BaseT standard specifications; Category 5e **OR** better cable, 100 meters maximum distance for 1000BaseT, Category 5 **OR** better cable, 100 meters maximum distance for 100BaseTX, Category 3 or better cable, 100 meters maximum distance for 10BaseT **PLUS** 1 fiber optic port meeting IEEE 802.3z 1000BaseSX standard specification; 62.5/125 micron multimode fiber optic cable, 220 meters maximum distance, or 50/125 micron multimode fiber optic cable, 550 meters maximum distance

PERFORMANCE
Latency: < 4.2 µs (LIFO)
Throughput @ 100Base: 148,809 pps
Throughput @ 1000Base: 1,488,100 pps (64-byte packets)

LED INDICATORS
Per unit - Power status, RJ-45 port speed
Per Port -LNK/ACT, FDX/COL
Six LEDs total

PHYSICAL CHARACTERISTICS
Case dimensions:
4.33"L x 3.19"W x 0.91"H
(110mm x 81mm x 23mm)
Fiber connector protrusion varies with model.
Weight: 0.33 pounds (150 grams)

SAFETY
UL Listed

Model 065-1100

Model 065-1110

Model 065-1170

Model 065-1172

Model 065-1174

A

MEDIA CONVERTER SYSTEMS

Signamax Connectivity Systems' Gigabit Ethernet Media Converters make it simple to extend distances over multimode or singlemode fiber. They are designed to expand the scope of your Gigabit Ethernet network applications and are 100% compliant with Ethernet IEEE 802.3ab and 802.3z specifications. These converters maintain the same form factor as other Signamax media converters, allowing use in the Model 065-1180 8-Bay or 065-1185 16-Bay Signamax Rack Mount Chassis. Twisted pair to fiber optic converters for both multimode and singlemode fiber, multimode to singlemode converters, and singlemode to singlemode extenders are available.

Gigabit Ethernet Fiber Media Converters

SPECIFICATIONS

APPLICABLE STANDARDS
IEEE 802.3ab 1000BaseT
IEEE 802.3z 1000BaseLX
IEEE 802.3z 1000BaseSX

FIXED PORTS
One twisted-pair port meeting IEEE 802.3ab standard specification; Category 5e or better cable, 100 meters maximum distance
and/or
One fiber optic port meeting IEEE 802.3z standard; 62.5/125 micron multimode fiber optic cable, 220 meters maximum distance or 50/125 micron multimode fiber optic cable, 550 meters maximum distance (Models 065-1194 & 065-1195)
or
1 fiber optic port meeting IEEE 802.3z 1000BaseLX standard specification; 9/125 micron singlemode fiber optic cable, spanning 10 kilometers maximum distance (Models 065-1194 & 065-1197)
or
20 kilometers maximum distance (Models 065-1194ED, 065-1197ED, & 065-1198XLD)

PERFORMANCE
1,488,000 packets per second at 1000 Mbps

LED INDICATORS
Power; TX; RX; FDX/COL; LNKF; LNKC (or LNK1; LNK2, Model 065-1198XLD)

PHYSICAL CHARACTERISTICS
Dimensions:
4.33"L x 3.19"W x 0.91"H
(110mm x 81mm x 23mm)
Weight: 0.33 pounds *(150 grams)*

SAFETY
UL Listed

Gigabit Ethernet Media Converters

PART NO.	DESCRIPTION
065-1194	1000BaseSX to 1000BaseLX Gigabit Ethernet SC multimode to SC singlemode media converter, 10 km span
065-1194ED	1000BaseSX to 1000BaseLX Gigabit Ethernet SC multimode to SC singlemode media converter, 20 km span
065-1195	1000BaseT to 1000BaseSX Gigabit Ethernet media converter, SC multimode
065-1197	1000BaseT to 1000BaseLX Gigabit Ethernet media converter, SC singlemode, 10 km span
065-1197ED	1000BaseT to 1000BaseLX Gigabit Ethernet media converter, SC singlemode, 20 km span
065-1198XLD	1000BaseLX to 1000BaseLX Gigabit Ethernet fiber optic repeater, SC singlemode, 20 km span each port
065-11DINMT	DIN rail mounting bracket for 065-11xx series media converters

Signamax Connectivity Systems' Fiber Optic Media Converters reduce cabling cost by providing flexible, non-switched fiber optic solutions for Ethernet LANs and WAN connectivity. Models are available for direct connection to RJ-45 and fiber optic ports on either Ethernet or Fast Ethernet devices, and the 065-1160 model allows interconnection between 10BaseT twisted-pair and 10Base2 coaxial Thinnet cable Ethernet networks.

Each Media Converter is enclosed in a compact, strong metal case and includes an external power supply for stand-alone applications. They can also be installed without modification in the Signamax 065-1180 and 065-1185 Rack Mount Chassis systems, featuring redundant power supplies for high reliability in multiple converter installations.

Fiber Optic Media Converters

Fiber Optic Media Converters

PART NO.	DESCRIPTION
065-1100NS	100BaseTX to 100BaseFX ST Multimode
065-1110NS	100BaseTX to 100BaseFX SC Multimode
065-1120NS	100BaseTX to 100BaseFX SC Singlemode (20 km span)
065-1140	10BaseT to 10BaseFL ST Multimode
065-1150	10BaseT to 10BaseFL SC Singlemode (20 km span)
065-1160	10BaseT to 10Base2 - BNC Connector
065-11DINMT	DIN rail mounting bracket for 065-11xx series media converters

SPECIFICATIONS

APPLICABLE STANDARDS
Ethernet IEEE 802.3 and IEEE 802.3u

FIXED PORT SPECIFICATIONS
100BaseTX twisted-pair interface, Models 065-1100NS, 065-1110NS, & 065-1120NS:
RJ-45 connector, 100 meters max distance
100BaseTX twisted pair cable interface
Models 065-1140, 065-1150, & 065-1160:
RJ-45 connector, 100 meters max distance
10BaseT twisted pair cable interface
Model 065-1100NS:
ST connector; 2000 meters max. distance
100BaseFX multimode fiber optic interface
Model 065-1110NS:
SC connector; 2000 meters max. distance
100BaseFX multimode fiber optic interface
Model 065-1120NS:
SC connector, 20 kilometer max. distance
100BaseFX singlemode fiber interface
Model 065-1140: ST connector;
2000 meters max. distance
10BaseFL multimode fiber optic interface
Model 065-1150: SC connector;
20 kilometers max. distance
10BaseFL singlemode fiber optic interface
Model 065-1160: BNC connector;
185 meters max. distance
10Base2 coaxial cable interface

PERFORMANCE
Delay: less than 23 bit times

PHYSICAL CHARACTERISTICS
Case dimensions:
4.33"L x 3.19"W x 0.91"H
(110mm x 81mm x 23mm)
Fiber connector protrusion varies with model.
Weight: 0.33 pounds *(150 grams)*

SAFETY
UL Listed

Signamax Connectivity Systems' Singlemode to Multimode Converters provide efficient solutions for interconnecting multimode fiber LANs over longer distances by integrating singlemode fiber optic cable into the LAN. They also enable Ethernet LAN and WAN connectivity, by providing a multimode interface to singlemode fiber carrier demarcation points. Models are available for singlemode to multimode conversion between Fast Ethernet devices, or for Asynchronous Transfer Mode (ATM) applications transported over a Synchronous Optical Network (SONET). Each Media Converter is enclosed in a compact, strong metal case and includes an external power supply for stand-alone applications. They can also be installed without modification in the Signamax 065-1180 and 065-1185 Rack Mount Chassis systems, featuring redundant power supplies for high reliability in multiple converter installations.

Singlemode to Multimode Converters

Singlemode to Multimode Converters

PART NO.	DESCRIPTION
065-1130	100BaseFX SC Singlemode (15 km span) to ST Multimode
065-1130ED	100BaseFX SC Singlemode (40 km span) to ST Multimode
065-1130XLD	100BaseFX SC Singlemode (75 km span) to ST Multimode
065-1132	100BaseFX SC Singlemode (15 km span) to SC Multimode
065-1132ED	100BaseFX SC Singlemode (40 km span) to SC Multimode
065-1132XLD	100BaseFX SC Singlemode (75 km span) to SC Multimode
065-1190	ATM 155 Mbps / SONET OC-3 SC Singlemode (20 km span) to SC Multimode
065-1190HS	ATM 622 Mbps / SONET OC-12 SC Singlemode (20 km span) to SC Multimode
065-11DINMT	DIN rail mounting bracket for 065-11xx series media converters

SPECIFICATIONS

APPLICABLE STANDARDS
Ethernet IEEE 802.3u
Asynchronous Transfer Mode (ATM) 155 Mbps Specifications (model 065-1190)
Asynchronous Transfer Mode (ATM) 622 Mbps Specifications (model 065-1190HS)
Synchronous Optical Network (SONET) Optical Carrier - 3 (OC-3) Specifications (model 065-1190)
Synchronous Optical Network (SONET) Optical Carrier - 12 (OC-12) Specifications (model 065-1190HS)
Synchronous Digital Hierarchy (SDH) STM-1 Specifications (model 065-1190)
Synchronous Digital Hierarchy (SDH) STM-4 Specifications (model 065-1190HS)

FIXED PORT SPECIFICATIONS
Model 065-1130, 065-1130ED, 065-1130XLD:
ST connector; 2000 meters max. distance 100BaseFX multimode fiber optic interface,
Model 065-1132, 065-1132ED, 065-1132XLD:
SC connector; 2000 meters max. distance 100BaseFX multimode fiber optic interface,
Models 065-1130, 065-1130ED, 065-1130XLD, 065-1132, 065-1132ED, & 065-1132XLD: SC connector, 100BaseFX singlemode fiber interface; Standard models: 15 kilometers max. distance
ED Models: 40 kilometers max. distance
XLD Models: 75 kilometers max. distance
SONET OC-3 / ATM 155 Mbps multimode fiber optic interface, Model 065-1190:
ST connector; 2000 meters max. distance
SONET OC-3 / ATM 155 Mbps singlemode fiber optic interface, Model 065-1190:
SC connector; 20 kilometers max. distance
SONET OC-12 / ATM 622 Mbps multimode fiber optic interface, Model 065-1190HS:
ST connector; 2000 meters max. distance
SONET OC-12 / ATM 622 Mbps singlemode fiber optic interface, Model 065-1190HS:
SC connector; 20 kilometers max. distance

PERFORMANCE
Delay: less than 21 bit times

PHYSICAL CHARACTERISTICS
Case dimensions:
4.33"L x 3.19"W x 0.91"H
(110mm x 81mm x 23mm)
Fiber connector protrusion varies with model.
Weight: 0.33 pounds *(150 grams)*

SAFETY
UL Listed

The Signamax 065-1200 12-Channel Rack Mount Media Converter is a perfect solution for large installations that utilize many of the same type of media converters. The 065-1200 contains 12 channels of media conversion in a standard rack mountable case only one rack unit high. This extremely high port density allows the maximum number of media converter channels per rack for enterprise-level businesses and carriers. Redundant fan-cooled power supplies ensure system uptime.

The 065-1200 has a choice of configurations, utilizing the same technology and connector types as the standalone media converters in the 065-1100 series for 10/100BaseT/TX to 100BaseFX conversion. Standard or Link Fault Signaling (LFS) versions are available. In addition, the 065-1200 can be optionally equipped with twelve channels of Gigabit Ethernet 1000BaseT to 1000BaseSX media conversion, emulating twelve 065-1195 converters.

12-Channel Fiber Optic Media Converters

12-Channel Rack Mount Media Converters

PART NO.	DESCRIPTION
065-1200ST00	10/100BaseT/TX to 100BaseFX Converters ST Multimode
065-1200SC10	10/100BaseT/TX to 100BaseFX Converters SC Multimode
065-1200VF70	10/100BaseT/TX to 100BaseFX Converters VF-45 Multimode
065-1200MT72	10/100BaseT/TX to 100BaseFX Converters MT-RJ Multimode
065-1200LC74	10/100BaseT/TX to 100BaseFX Converters LC Multimode
065-1200SC20	10/100BaseT/TX to 100BaseFX Converters SC Singlemode (15 km span)
065-1200SC20ED	10/100BaseT/TX to 100BaseFX Converters SC Singlemode (40 km span)

Please see specification sheet for additional configurations.
Add "LFS" to above part numbers for Link Fault Signaling version.

SPECIFICATIONS

APPLICABLE STANDARDS
IEEE 802.3 10BaseT
IEEE 802.3u 100BaseTX
IEEE 802.3u 100BaseFX
IEEE 802.3ab 1000BaseT
IEEE 802.3z 1000BaseSX

FIXED PORTS
Twelve channels of media conversion, each with a twisted pair port and a corresponding fiber optic port meeting either of the following specifications:
065-11xx series and 065-11xxLFS series versions:
10/100BaseT/TX to 100BaseFX, multimode fiber; choice of SC, ST, VF-45 or MT-RJ connectors; maximum distance: 2,000 meters
10/100BaseT/TX to 100BaseFX, singlemode fiber, SC connectors; MT-RJ connectors available by special order. Maximum distance: up to 75 kilometers
LED Status Indicators:
Per unit - Power status, Speed (2 LEDs)
Per port - LNK/ACT, FDX/COL (2 LEDs)

065-1195 version:
1000BaseT to 1000BaseSX, multimode fiber, SC connectors; MT-RJ connectors available by special order. Maximum distance, 1000BaseSX port: 220 meters over 62.5 micron multimode fiber or 550 meters over 50/125 micron multimode fiber (full duplex only)
LED Status Indicators:
Per unit - Power status, FDX/COL, TX, RX (4 LEDs)
Per port - LNKF for fiber port, LNKC for copper port (1 LED each)

PHYSICAL CHARACTERISTICS
Dimensions:
17.3"W x 8.0"D x 1.8"H
(440mm x 205mm x 45m)
Weight: 6.8 lbs. (3.1 kg) maximum
Standard 19-in rack mounting (hardware included)

SAFETY
UL 1950

WARRANTY
Lifetime, including power supplies

A

MEDIA CONVERTER SYSTEMS

Signamax Connectivity Systems' Serial Data Fiber Media Converters make it simple to extend distances over multimode or singlemode fiber. They are designed to expand the scope of your RS-232 or RS-422/485 serial data applications, and are 100% compliant with EIA RS-232 unbalanced and both RS-422 & RS-485 4-wire balanced line specifications. These converters maintain the same form factor as other Signamax media converters, allowing their use in the Model 065-1180 and the Model 065-1185 Signamax Rack Mount Chassis systems. Converters for both multimode and singlemode fiber are available in both RS-232 and RS-422/485 configurations.

Serial Data Fiber Media Converters

Serial Data Fiber Optic Media Converters

PART NO.	DESCRIPTION
065-1162	RS-422/485 fiber optic media converter, ST multimode connector, 2,000 meter span
065-1162SC	RS-422/485 fiber optic media converter, SC multimode connector, 2,000 meter span
065-1162SM	RS-422/485 fiber optic media converter, SC singlemode connector, 20 km span
065-1164	RS-232 fiber optic media converter, ST multimode connector, 2,000 meter span
065-1164SC	RS-232 fiber optic media converter, SC multimode connector, 2,000 meter span
065-1164SM	RS-232 fiber optic media converter, SC singlemode connector, 20 km span
065-11DINMT	DIN rail mounting bracket for 065-11xx series media converters

SPECIFICATIONS

APPLICABLE STANDARDS
EIA RS-232 (065-1164 series)
EIA RS-422, 4-wire only (065-1162 series)
EIA RS-485, 4-wire only (065-1162 series)

FIXED PORTS
One DB-9 serial data port meeting
EIA RS-232 (065-1164 series), or
EIA RS-422 and EIA RS-485 (065-1162 series)
standard specification.
Push-button switch on rear panel
for DTE/DCE selection (all models)
DIP switch panel on 065-1162 series for DTE/DCE selection and timer for multipoint (RS-485) environments.

Maximum distance: 1,000 meters
(065-1162 series)
or 15 meters (065-1164 series - RS-232 limitation)
and
One fiber optic port supporting either 62.5/125 micron or 50/125 micron multimode fiber optic cable,
2,000 meters maximum distance
or
One fiber optic port supporting either 9/125 micron or 10/125 micron singlemode fiber optic cable, spanning 20 kilometers maximum distance

PERFORMANCE
Supports 5 Mbps (maximum) data transfer rate
Bit error rate (BER): <10 -9

LED INDICATORS
Unit: Power
Fiber Port: LNK; RCV

PHYSICAL CHARACTERISTICS
Dimensions:
4.33"L x 3.19"W x 0.91"H
(110mm x 81mm x 23mm)
Weight: 0.33 pounds (150 grams)

SAFETY

Signamax Connectivity Systems' 065-1163 series of RS-232/422/485 serial data to Ethernet media converters are the perfect answer to the problem of integrating serial data devices into a convergent Ethernet-based network. These converters accept serial data on one port in either RS-232, RS-422, or RS-485 format and convert the serial data stream into Ethernet/Fast Ethernet framed and formatted packets. These packets can then be transported across an Ethernet, Fast Ethernet, or Gigabit Ethernet network to another 065-1163 series converter, which reconstructs the Ethernet packets into the original serial data bit stream. Models are available to connect serial data devices to your existing Ethernet / Fast Ethernet network over twisted-pair or fiber optic cable at distances up to 30 kilometers (over 18.6 miles). This avoids the requirement for a separate serial data network and its associated cabling plan.

Serial Data to Ethernet Media Converters

Serial Data to Ethernet Media Converters

PART NO.	DESCRIPTION
065-1163T	RS-232/422/485 to 10/100BaseT/TX converter - RJ-45
065-1163FSC	RS-232/422/485 to 100BaseFX converter - SC Multimode
065-1163FST	RS-232/422/485 to 100BaseFX converter - ST Multimode
065-1163FSM	RS-232/422/485 to 100BaseFX converter - SC Singlemode (20 km span)
065-1163FSMED	RS-232/422/485 to 100BaseFX converter - SC Singlemode (30 km span)
065-11DINMT	DIN rail mounting bracket for 065-11xx series media converters

SPECIFICATIONS

APPLICABLE STANDARDS
IEEE 802.3 10BaseT Ethernet
IEEE 802.3u 100BaseTX & 100BaseFX Fast Ethernet
EIA/TIA RS-232E
EIA/TIA-574 (RS-422/485, 2-wire & 4-wire)

PORTS
1x RJ-45 Twisted Pair; 10/100BaseT/TX (065-1163T)
1x duplex fiber; 100BaseFX - SC Multimode (065-1163FSC)
1x duplex fiber; 100BaseFX - ST Multimode (065-1163FST)
1x duplex fiber; 100BaseFX - SC Singlemode (065-1163FSM & 065-1163FSMED)
1x 9-pin serial connector; RS-232 / RS-422 / RS-485 - D-sub, female (all models)

DATA RATES
Twisted Pair (Model 065-1163T): 10 Mbps or 100 Mbps
Fiber (Models 065-1163FSC, 065-1163FST, 065-1163FSM, and 065-1163FSMED): 100 Mbps
Serial (all models): 50 ~ 115.2 kbps (asynchronous).

DISTANCES SPANNED
Copper: 1,200 meters (RS-422, RS-485; 24 AWG - all models)
15 meters (RS-232 - all models)
100 meters (10/100BaseT/TX model 065-1163T)
Fiber: 2,000 meters (multimode models 065-1163FSC & 065-1163FST)
20 km (singlemode model 065-1163FSM)
30 km (long haul singlemode model 065-1163FSMED)

PHYSICAL CHARACTERISTICS
Dimensions: 2.9"W x 4.3"D x 0.9"H *(73.8mm x 109.2mm x 23.4mm)*
Weight: 5.6 ounces (158 grams)

SAFETY
UL Listed

Signamax Connectivity Systems' Model 065-1180 Rack Mount Chassis is a carrier or enterprise level rack mounting system designed to accommodate the line of Signamax Ethernet Media Converters. Multi-functional chassis allows the same Media Converter to be used as either a standalone or as a rack mountable component. The system ships standard with two hot-swappable, fully redundant, load-sharing power supplies to ensure continued availability of the media converters in the event of a power supply failure. It also ships with three fully redundant, load-sharing cooling fans as a standard configuration. The Signamax model 065-1180 Rack Mount Chassis is a system worthy of any TELCO or Interexchange Carrier installation. It is easy to maintain, easy to service, and absorbs substantial abuse without failure.

8-Bay Media Converter Rack Mount Chassis

8-Bay Rack Mount Media Converter Chassis

PART NO.	DESCRIPTION
065-1180	Rack Mount Media Converter Chassis System, includes 2 Redundant Power Supplies & 3 Fan Cooling Assemblies
065-1180DC	Rack Mount Media Converter Chassis System, includes 2 Redundant -48 V DC Power Supplies & 3 Fan Cooling Assemblies
FO-AC-1180	Spare Redundant AC Power Supply For 8-Bay Chassis
FO-DC-1180	Spare Redundant -48 V DC Power Supply For 8-Bay Chassis
FO-1180FAN	Spare Individual Fan Assembly For 8-Bay Chassis

SPECIFICATIONS

CAPACITY
Eight bays for up to eight 065-11xx series media converters

LED STATUS INDICATORS
Power: Power supply on-line
Fan1/Fan2/Fan3: LED indicates that the fan is on-line
Bay 1 — Bay 8: LED indicates bay is occupied and associated Media Converter is receiving power

PHYSICAL CHARACTERISTICS
Dimensions: 17.0". x 11.5" x 5.1"
(430mm x 290mm x 133mm)
3 standard rack units
Weight: Approximately 11.5 pounds (5.2 kilograms), fully loaded

POWER SUPPLIES
Load-sharing and hot-swappable; 2 supplied as standard equipment

SAFETY
Power Supplies: UL 1950 Listed, CSA 234, 22.2, TUV EN60950
Cooling Fans: UL/cUL/TUV Listed/Approved.

The Signamax 065-1185 16-Bay Media Converter Rack Mount Chassis provides higher rack mount media converter density for large installations that can accommodate rear access to the chassis for power supply maintenance. The 065-1185 provides 16 bays of space for all 065-11xx series Signamax media converters in a standard two rack unit high enclosure. High port density allows a variety of media converter solutions to be housed in a minimum amount of rack spaces for enterprise-level businesses and carriers. Redundant, fan-cooled load-sharing power supplies can be hot-swapped to ensure system uptime.

The 065-1185 has a choice of power supply configurations, supporting AC power for 110 volt or 220 volt power systems or -48 volt DC power for carrier operations.

16-Bay Media Converter Rack Mount Chassis

16-Bay Media Converter Rack Mount Chassis

PART NO.	DESCRIPTION
065-1185	16-Bay Rack Mount Media Converter Chassis System, includes 2 Redundant AC Power Supplies & 4 Fan Cooling Assemblies
065-1185DC	16-Bay Rack Mount Media Converter Chassis System, includes 2 Redundant -48 V DC Power Supplies & 4 Fan Cooling Assemblies
FO-AC-1185	Spare Redundant AC Power Supply for 16-Bay Chassis
FO-DC-1185	Spare Redundant -48 V DC Power Supply For 16-Bay Chassis
FO-1185FAN	Spare Individual Fan Assembly For 16-Bay Chassis

SPECIFICATIONS

CAPACITY
Sixteen bays, for up to sixteen 065-11xx series media converters.

LED STATUS INDICATORS
Power 1/Power 2: Power supply on-line

SAFETY
UL 1950 listed
Cooling Fans: UL/cUL/TUV Listed/Approved.

WARRANTY
Lifetime, including power supplies

PHYSICAL CHARACTERISTICS
Dimensions: 17.3" x 10.9" x 3.5")
(440mm x 276mm x 90mm)
2 standard rack units
Weight: Approximately 18.7 pounds (8.5 kilograms), fully loaded

POWER SUPPLIES
Load-sharing and hot-swappable; 2 supplied as standard equipment. AC and -48 volt DC units available. Power status LED on each power supply, as well as remote status LEDs on front panel.

NETWORK CONNECTIVITY PRODUCTS

SIGNAMAX™
CONNECTIVITY SYSTEMS

Ethernet Switches

B

Gigabit Ethernet Access Switch

24-Port Gigabit Ethernet Fiber Switch

24-Port 100FX Ethernet Fiber Switch

Managed Compact Fiber Access Switch

WebSmart Gigabit Ethernet Switches

16- & 24-Port 10/100/1000 Gigabit Ethernet Switches

16- & 24-Port WebSmart 10/100 Ethernet Switches

10/100BaseT/TX Rack Mount Switches

8-Port 100BaseFX Fiber Switch

Compact Fiber Access Switch

5 and 8-Port 10/100/1000BaseT/TX Desktop Switches

5- , 8-, & 16-Port 10/100 Ethernet Desktop Switches

Signamax Connectivity Systems' 065-7732A Gigabit Ethernet Access Switch provides two optional Gigabit Ethernet connections, and it is a fully functional SNMP-managed 24-port 10/100 switch as well. Two redundant, load-sharing, hot-swappable power supplies are standard equipment. The two optional Gigabit Ethernet ports permit creation of a Gigabit backbone network with 24 10/100 ports per switch for workstation and server connectivity. Full SNMP management capabilities are included, with web browser, local terminal and Telnet remote terminal connection usable simultaneously with real time updating. It also communicates with network management systems such as HP OpenView(tm) via SNMP for enterprise-wide status display, statistical monitoring, and switch control. Layer 3 look-ahead routing features and IEEE 802.1p Class of Service / 802.1Q Tagged VLAN support provide a complete package for convergent networks.

Gigabit Ethernet Access Switch

Model
065-77TX

Model
065-77LX

Gigabit Ethernet Access Switch

PART NO.	DESCRIPTION
065-7732A	24-Port 10/100T/TX Switch with 2 Gigabit Expansion Slots -- AC Power
065-7732ADC	24-Port 10/100T/TX Switch with 2 Gigabit Expansion Slots -- -48 V DC Power
065-77SX	1000BaseSX Expansion Module for Gigabit Access Switch - SC Multimode
065-77LX	1000BaseLX Expansion Module for Gigabit Access Switch - SC Singlemode (10 km)
065-77LXED	1000BaseLX Expansion Module for Gigabit Access Switch - SC Singlemode (20 km)
065-77TX	1000BaseTX Expansion Module for Gigabit Access Switch - RJ-45 Cat 5e

SPECIFICATIONS

APPLICABLE STANDARDS
IEEE 802.3 10BaseT
IEEE 802.3u 100BaseTX
IEEE 802.3z 1000BaseSX/LX
IEEE 802.3ab 1000BaseT
IEEE 802.1p Priority (Classification of Service [CoS])
IEEE 802.1D Spanning Tree
IEEE 802.1Q Tagged VLAN
IEEE 802.3x Flow Control
IEEE 802.3ad Link Aggregation

PERFORMANCE
Latency: <4.5 µs (LIFO).
Throughput: 1.48810 million pps (64-byte packets)
Switch Fabric Speed: 12.0 Gbps

ADMINISTRATION CONSOLE
1 - RS-232C DB-9 local console serial port. (Default Parameters: 115,200 bps, 8 data bits, no parity, 1 stop bit)

PORTS
24 - RJ-45 10/100BaseT/TX ports
2 - Open Gigabit Ethernet interface slots.
Optional Interfaces:
065-77SX: 1000BaseSX with SC multimode fiber connectors.
Maximum distance: 220 meters with 62.5/125 micron fiber cabling or 550 meters with 50/125 micron fiber cabling
065-77TX: 1000BaseT with RJ-45 connector.
Maximum distance: 100 meters with Category 5e or better twisted-pair cabling.
065-77LX: 1000BaseLX with SC singlemode fiber connectors.
Maximum distance: 10 km with 9/125 micron fiber cabling.
065-77LXED: 1000BaseLX with SC singlemode fiber connectors.
Maximum distance: 20 km with 9/125 micron fiber cabling.

MANAGEMENT
Console port access via RS-232 cable, Telnet remote access, SNMP agent, and Web browser. Kermit/TFTP software-upgrade capability

LED STATUS INDICATORS
Per Switch: Power
Per Port: Link/Activity, Full duplex

PHYSICAL CHARACTERISTICS
Dimensions: 17.4"W x 16.4"D x 1.8"H *(440mm x 415mm x 45 mm)* Standard 19-in rack mounting (hardware included)
Weight: 7.5 lbs (3.4 kg)

SAFETY
UL 1950

WARRANTY
Five years, including power supply
Optional Gigabit Ethernet Modules Sold Separately

Signamax Connectivity Systems' Model 065-7732AFSC Multimode and 065-7732AFSM Singlemode Fiber Gigabit Ethernet Access Switches are the most cost-effective way to extend fiber to the desktop from a Gigabit Ethernet fiber backbone. Model 065-7732FSC provides two 1000BaseSX multimode fiber optic ports plus 24 100BaseFX multimode fiber optic ports, typically used in Local Area Network (LAN) applications. Model 065-7732FSM provides two 1000BaseLX singlemode fiber optic ports plus 24 100BaseFX singlemode fiber ports, for use in applications where greater distances need to be spanned, or in carrier networks where singlemode fiber is the distribution media of choice. SNMP, Web-browser, local terminal connection and Telnet remote terminal management capabilities are included.

24-Port Gigabit Ethernet Fiber Switch

Fiber Gigabit Ethernet Access Switch

PART NO.	DESCRIPTION
065-7732AFSC	Multimode Fiber Gigabit Ethernet Access Switch -- AC Power
065-7732AFSCDC	Multimode Fiber Gigabit Ethernet Access Switch -- -48 V DC Power
065-7732AFSM	Multimode Fiber Gigabit Ethernet Access Switch -- AC Power
065-7732AFSMDC	Multimode Fiber Gigabit Ethernet Access Switch -- -48 V DC Power

SPECIFICATIONS

APPLICABLE STANDARDS
IEEE 802.3u 100BaseFX
IEEE 802.3z 1000BaseSX
IEEE 802.3z 1000BaseLX
IEEE 802.1p Priority (CoS)
IEEE 802.1D Spanning Tree
IEEE 802.1Q VLANs
IEEE 802.3x Flow Control
IEEE 802.3ad Link Aggregation

MANAGEMENT
Console port access via RS-232 cable, Telnet remote access, SNMP agent, and Web browser. Kermit/TFTP software-upgrade capability

PERFORMANCE
Latency: <4.5 µs (LIFO).
Throughput: 1.48810 million pps (64-byte packets)
Switch Fabric Speed: 12.0 Gbps.

LED STATUS INDICATORS
Per Unit:
Power status
Per Port:
LNK/ACT, FDX (2 LEDs) for each 100BASE-FX port

PORTS
Model 065-7732AFSC:
24 – Fixed 100BaseFX ports, SC multimode connectors (IEEE 802.3u 100BaseFX). Maximum distance: 2,000 meters with 62.5/125 micron or 50/125 micron multimode fiber cabling
2 – Fixed 1000BaseSX Gigabit Ethernet ports, SC multimode connectors (IEEE 802.3z 1000BaseSX). Maximum distance: 220 meters with 62.5/125 micron multimode fiber cabling or 550 meters with 50/125 micron multimode fiber cabling.
1 – RS-232C DB-9 local console serial port (Default Parameters: 115,200 bps, 8 data bits, no parity, 1 stop bit)

Model 065-7732AFSM:
24 – Fixed 100BaseFX ports, SC singlemode connectors (IEEE 802.3u 100BaseFX). Maximum distance: 75 kilometers with 9/125 micron singlemode fiber cabling.
2 – Fixed 1000BaseLX Gigabit Ethernet ports, SC singlemode connectors (IEEE 802.3z 100BaseLX). Maximum distance: 20 kilometers with 9/125 micron singlemode fiber cabling.
1 – RS-232C DB-9 local console serial port (Default Parameters: 115,200 bps, 8 data bits, no parity, 1 stop bit)

PHYSICAL CHARACTERISTICS
Dimensions: 17.4"Wx 16.4"Dx 1.8"H *(440mm x 415mm x 45 mm)* Standard 19-in rack mounting (hardware included).
Weight: 7.5 lbs. (3.4 kg)

POWER
AC Input: 100 ~ 260VAC, 47 ~ 63Hz internal universal power supply
or
DC Input: -48 VDC, LUG Type – 2 pin connector block; internal DC power supply
Specification applies to each of two included redundant, load-sharing, hot-swappable power supplies.

SAFETY
UL 1950

WARRANTY
Five years, including power supply

Signamax Connectivity Systems' Model 065-7640AFSC and 065-7640AFSM Fast Ethernet Fiber Switches connect workstations and servers using fiber optic cable where Gigabit Ethernet connections are not desired. These non-blocking 24-port 100BaseFX Fast Ethernet switches have SNMP, Web-browser, local terminal connection and Telnet remote terminal management capabilities included, to build a fiber-based enterprise-level network at Fast Ethernet speeds. Model 065-7640AFSC provides 24 100BaseFX multimode fiber optic ports, typically used in Local Are Network (LAN) applications. Model 065-7640AFSM provides 24 100BaseFX singlemode fiber ports, for use in carrier network applications or in LANs where longer distances need to be spanned.

24-Port 100FX Ethernet Fiber Switch

Fast Ethernet Fiber Switch

PART NO.	DESCRIPTION
065-7640AFSC	Fast Ethernet Fiber Switch -- Multimode, SC connectors -- AC Power
065-7640AFSCDC	Fast Ethernet Fiber Switch -- Multimode, SC connectors -- -48 V DC Power
065-7640AFSM	Fast Ethernet Fiber Switch -- Singlemode, SC connectors -- AC Power
065-7640AFSMDC	Fast Ethernet Fiber Switch -- Singlemode, SC connectors -- -48 V DC Power

SPECIFICATIONS

APPLICABLE STANDARDS
IEEE 802.3u 100BaseFX
IEEE 802.1p Priority (CoS)
IEEE 802.1D Spanning Tree
IEEE 802.1Q VLANs
IEEE 802.3x Flow Control
IEEE 802.3ad Link Aggregation

PORTS
Model 065-7640AFSC:
24 - 100BaseFX ports, SC multimode connectors; span up to 2,000 meters (IEEE 802.3u 100BaseFX)
1 - RS-232C DB-9 local console serial port (Default Parameters: 115,200 bps, 8 data bits, no parity, 1 stop bit)
Model 065-7640AFSM:
24 - 100BaseFX ports, SC singlemode connectors; span up to 75 kilometers (IEEE 802.3u 100BaseFX)
1 - RS-232C DB-9 local console serial port (Default Parameters: 115,200 bps, 8 data bits, no parity, 1 stop bit)

MANAGEMENT
Console port access via RS-232 cable, Telnet remote access, SNMP agent, and Web browser.
Kermit/TFTP software-upgrade capability

PERFORMANCE
Latency: <4.5 µs (LIFO).
Throughput: 1.48810 million pps (64-byte packets)
Switch Fabric Speed: 12.0 Gbps.

LED STATUS INDICATORS
Per Unit: Power status
Per Port: LNK/ACT, FDX (2 LEDs) for each 100BASE-FX port

PHYSICAL CHARACTERISTICS
Dimensions: 17.4"W x 16.4"D x 1.8"H *(440mm x 415mm x 45 mm)* Standard 19-in rack mounting (hardware included)
Weight: 7.5 lbs. (3.4 kg)

POWER
AC Input: 100 ~ 260VAC, 47 ~ 63Hz internal universal power supply
or
DC Input: -48 VDC, LUG Type – 2 pin connector block; internal DC power supply
Specification applies to each of two included redundant, load-sharing, hot-swappable power supplies.

SAFETY
UL 1950

WARRANTY
Five years, including power supply

Signamax Connectivity Systems' Managed Compact Fiber Access Switch provides the capabilities you need for mission-critical fiber-extended networks. The 065-7210 series of switches allows redundant path fiber extension to small workgroups and Programmable Logic Controller (PLC) clusters with automatic failover. These switches support a complete SNMP management and monitoring package to safely extend management capabilities and advanced internetworking features over fiber to workgroups, smaller campus buildings, and production or control machinery equipped with PLCs at Fast Ethernet speeds. Tagged VLAN and Quality of Service (QoS) packets are fully supported by these switches, to allow administrative and production networks to coexist on the same redundant fiber link.

Managed Compact Fiber Access Switch

Managed Compact Fiber Access Switches

PART NO.	DESCRIPTION
065-7210SC	Multimode Managed Compact Fiber Access Switch — SC
065-7210ST	Multimode Managed Compact Fiber Access Switch — ST
065-7210LC	Multimode Managed Compact Fiber Access Switch — LC (Special Order)
065-7210MT	Multimode Managed Compact Fiber Access Switch - MT-RJ (Special Order)
065-7210VF	Multimode Managed Compact Fiber Access Switch - VF-45 (Special Order)
065-7210SM	Singlemode Managed Compact Fiber Access Switch - SC (Special Order)
065-7210SMED	Singlemode Managed Compact Fiber Access Switch - SC (Special Order)
065-7210SMXLD	Singlemode Managed Compact Fiber Access Switch - SC (Special Order)

APPLICABLE STANDARDS

IEEE 802.3 10BaseT
IEEE 802.3u 100BaseTX
IEEE 802.3u 100BaseFX
IEEE 802.1p Priority (Classification of Service [CoS])
IEEE 802.1D Spanning Tree
IEEE 802.1Q Tagged VLAN
IEEE 802.3x Flow Control
IEEE 802.3ad Link Aggregation

PORTS

Models 065-7210SC, 065-7210ST, 065-7210LC, 065-7210MT & 065-7210VF:

2 – Fixed 100BaseFX port, SC multimode (mode 065-7210SC), ST multimode (model 065-7210ST), LC multimode (model 065-7210LC), MT-RJ multimode (model 065-7210MT), or VF-45 multimode (model 065-7210VF) connectors. (IEEE 802.3u Type 100BaseFX)

Maximum distance:

2,000 meters with 62.5/125 micron or 50/125 micron multimode fiber cabling

6 – Fixed 10/100BaseT/TX ports, RJ-45 connectors (IEEE 802.3u Type 10BaseT & 100BaseTX)

Models 065-7210SM, 065-7210SMED, & 065-7210SMXLD:

2 – Fixed 100BaseFX port, SC singlemode connector. (IEEE 802.3u Type 100BaseFX)

Maximum distance:

Model 065-7210SM:
15 kilometers with 9/125 micron or 10/125 micron singlemode fiber cabling

Model 065-7210SMED:
40 kilometers with 9/125 micron or 10/125 micron singlemode fiber cabling

Model 065-7210SMXLD:
75 kilometers with 9/125 micron or 10/125 micron singlemode fiber cabling

6 – Fixed 10/100BaseT/TX ports, RJ-45 connectors (IEEE 802.3u Type 10BaseT & 100BaseTX)

1 - RS-232C DB-9 local console serial port (Default Parameters: 115,200 bps, 8 data bits, no parity, 1 stop bit)

LED STATUS INDICATORS

Power, Link/Activity, 100 Mbps, Full Duplex/Collision

PERFORMANCE

Throughput: 148,810 packets per second (pps) at 100 Mbps, 14,800 pps at 10 Mbps (64-byte packets)
Switch Fabric Speed: 1.6 Gbps.
Address Table Size: 12K MAC addresses

MANAGEMENT

Console port access via RS-232 cable, Telnet remote access, SNMP agent, and Web browser. Kermit/TFTP software-upgrade capability

PHYSICAL CHARACTERISTICS

Dimensions: 10"W x 5.3"D x 1.4"H *(254mm x 135mm x 35mm)*
Weight: 3.5 lbs. (1.6 kg)

EMISSIONS

FCC part 15 Class B
CE Mark Class B

MOUNTING

Desktop or wall mounting

SAFETY

UL 1950

WARRANTY

Five years, including power supply

Signamax Connectivity Systems' 8-Port WebSmart™ Gigabit Ethernet Switch features eight 10/100/1000BaseT/TX twisted-pair ports to extend Gigabit Ethernet to your servers and workstation users with high-bandwidth requirements. This switch also includes advanced support for port-based Virtual Local Area Networking (VLAN) and multi-port inter-switch trunking for use in larger-scale networks. WebSmart™ administrative and configuration capabilities provide network administrators with powerful, easy-to-use tools to reduce unnecessary broadcast traffic, flexibly segment networks, and enhance network security - either by a local cable connection or remotely from any convenient location using a standard web browser.

WebSmart Gigabit Ethernet Switches

8-Port WebSmart™ 10/100/1000 Ethernet Switch

PART NO.	DESCRIPTION
065-7911	8-Port 10/100BaseT/TX WebSmart™ 10/100/1000BaseT/TX Switch

SPECIFICATIONS

APPLICABLE STANDARDS
IEEE 802.3 10BaseT
IEEE 802.3u 100BaseTX
IEEE 802.3ab 1000BaseT
IEEE 802.3x Flow Control

PORTS
8 - RJ-45 10/100/1000BaseT/TX Auto-MDIX ports (IEEE 802.3 Type 10BaseT; 802.3u Type 100BaseTX; 802.3ab 1000BaseT)
1 - RJ-45 10/100BaseT/TX local console port

ADMINISTRATIVE CAPABILITY
WebSmart console port access via 10/100BaseT/TX connection or via web browser with assigned IP address; permits manual setting of port speed, port duplexity, Flow Control enablement/disablement, as well as establishment and administration of VLAN and/or trunking.

LED STATUS INDICATORS
Per Switch: Power
Per Console Port: Link, Activity
Per Port: Link/Activity, 10, 100, and 1000 Mbps Speed

PERFORMANCE
Latency: <6.0 µs (FIFO)
Throughput: 1,488,000 pps forwarding rate for 1000 Mbps 148,800 pps forwarding rate for 100 Mbps 14,880 pps forwarding rate for 10 Mbps (64-byte packets)
Switch Fabric Speed: 16 Gbps
Address Table Size: 4K MAC addresses
Packet Buffer Size: 128 Kilobytes

PHYSICAL CHARACTERISTICS
Dimensions: 17.5"W x 9.3"D x 1.74"H *(443.6 X 235.2 X 44 mm)* 1U rack mount size
Weight: Approximately 5.73 pounds (2.6 kg.)

EMISSIONS
FCC part 15 Class A, CE Mark

WARRANTY
Five years, including power supply

Signamax Connectivity Systems' Plug-and-Play Gigabit Ethernet Switches feature 16 or 24 10/100/1000BaseT/TX twisted-pair ports to extend Gigabit Ethernet capability cost-effectively where high bandwidth is needed. These models are equipped with two shared mini-GBIC ports, enabling distance extension with standard 1000BaseSX or 1000BaseLX mini-GBIC modules for distributed networks. Non-blocking switch architecture ensures full wire-speed throughput at all ports simultaneously.

16- & 24-Port 10/100/1000 Gigabit Ethernet Switches

16- & 24-Port 10/100/1000BaseT/TX Gigabit Ethernet Switches

PART NO.	DESCRIPTION
065-7930	16-Port 10/100/1000BaseT/TX Gigabit Ethernet Switch
065-7940	24-Port 10/100/1000BaseT/TX Gigabit Ethernet Switch
Expansion Modules	
065-79LXMG	1000BaseLX Mini-GBIC Expansion Module for Gigabit Ethernet Switch - LC Singlemode
065-79SXMG	1000BaseSX Mini-GBIC Expansion Module for Gigabit Ethernet Switch - LC Multimode

SPECIFICATIONS

APPLICABLE STANDARDS
IEEE 802.3 10BaseT
IEEE 802.3u 100BaseTX
IEEE 802.3u 100BaseFX
IEEE 802.3x Flow Control

PERFORMANCE
Address Table Size:
Model 065-7930: 4K MAC addresses
Model 065-7940: 8K MAC addresses
Latency: <4.3 µs (FIFO)
Throughput:
10Base: 14,880 pps
100Base: 148,810 pps
1000Base: 1,488,100 pps (64-byte packets)
Switch Fabric Speed:
Model 065-7930: 32.0 Gbps
Model 065-7940: 48.0 Gbps

LED STATUS INDICATORS
Per Switch: Power
Per Port: Link/Activity, 1000 Mbps Speed

PORTS
Model 065-7930:
16 – RJ-45 10/100/1000BaseT/TX Auto-MDIX ports (IEEE 802.3 Type 10BaseT; 802.3u Type 100BaseTX; 802.3ab 1000BaseT)
2 – open 1000Base mini-GBIC interface combo ports (shared with ports 15 & 16)
Model 065-7940:
24 – RJ-45 10/100/1000BaseT/TX Auto-MDIX ports (IEEE 802.3 Type 10BaseT; 802.3u Type 100BaseTX; 802.3ab 1000BaseT)
2 – open 1000Base mini-GBIC interface combo ports (shared with ports 15 & 16)

PHYSICAL CHARACTERISTICS
Model 065-7930:
Dimensions: 12.76"W x 9.09"D x 1.74"H *(324 mm x 231 mm x 44 mm)*; 19 inch rack mount brackets are also included with this switch.
Weight: 4.96 pounds (2.25 Kg)
Model 065-7940:
Dimensions: 17.3"W x 8.25"D x 1.73"H *(441mm x 210mm x 43mm)*
Weight: 4.96 pounds (2.25 Kg)

EMISSIONS
FCC Class A, CE Mark

WARRANTY
Five years, including power supply
Expansion Modules sold separately.

Signamax Connectivity Systems' WebSmart 10/100 Ethernet Switches feature 16 or 24 10/100 ports, an optional 100BaseFX multimode or singlemode fiber module for longer distance network connections, and easy web-based administration. Fiber optic multimode or singlemode expansion module options allow installation of fiber cabling anywhere within your existing copper-based network. These switches also include advanced support for port-based Virtual Local Area Networking (VLAN) and multi-port inter-switch trunking for use in larger-scale networks. WebSmart administrative and configuration capabilities provide network administrators with powerful, easy-to-use tools to reduce unnecessary broadcast traffic, flexibly segment networks, and enhance network security - either by a local cable connection or remotely from any convenient location using a standard web browser.

16- & 24-Port WebSmart 10/100 Ethernet Switches

16- & 24-Port WebSmart 10/100 Ethernet Switches

PART NO.	DESCRIPTION
065-7531	16-Port 10/100BaseT/TX WebSmart 10/100 Switch
065-7541	24-Port 10/100BaseT/TX WebSmart 10/100 Switch
Expansion Modules	
065-73SC	100BaseFX Expansion Module For 10/100 Switch - SC Multimode
065-73ST	100BaseFX Expansion Module For 10/100 Switch - ST Multimode
065-73MT	100BaseFX Expansion Module For 10/100 Switch - MT-RJ Multimode
065-73VF	100BaseFX Expansion Module For 10/100 Switch - VF-45 Multimode
065-73SM	100BaseFX Expansion Module For 10/100 Switch - SC Singlemode (15 km span)
065-73SMED	100BaseFX Expansion Module For 10/100 Switch - SC Singlemode (40 km span)
065-73SMXLD	100BaseFX Expansion Module For 10/100 Switch - SC Singlemode (75 km span)

SPECIFICATIONS

APPLICABLE STANDARDS
IEEE 802.3 10BaseT
IEEE 802.3u 100BaseTX
IEEE 802.3u 100BaseFX
IEEE 802.3x Flow Control

PORTS
Model 065-7531:
16 – RJ-45 10/100BaseT/TX Auto-MDIX ports (IEEE 802.3 Type 10BaseT; 802.3u Type 100BaseTX)
1 – open 100BaseFX interface slot
1 – RJ-45 10/100BaseT/TX local console port
Model 065-7541:
24 – RJ-45 10/100BaseT/TX Auto-MDIX ports (IEEE 802.3 Type 10BaseT; 802.3u Type 100BaseTX)
1 – open 100BaseFX interface slot
1 – RJ-45 10/100BaseT/TX local console port

ADMINISTRATIVE CAPABILITY
WebSmart console port access via 10/100BaseT/TX connection or via web browser with assigned IP address; permits manual setting of port speed, port duplexity, Flow Control enablement/disablement, as well as establishment and administration of VLAN and/or trunking.

LED STATUS INDICATORS
Per Switch: Power
Per Console Port: Link, Activity
Per Port: Link/Activity, 100 Mbps Speed

PERFORMANCE
Latency: <6.0 µs (FIFO)
Throughput: 148,810 pps (64-byte packets)
Switch Fabric Speed:
Model 065-7531: 3.6 Gbps
Model 065-7541: 6.8 Gbps
Address Table Size:
Model 065-7531: 2K MAC addresses
Model 065-7541: 8K MAC addresses

PHYSICAL CHARACTERISTICS
Dimensions:
17.3"W x 8.2"Dx 1.74"H
(440mm x 207 mm x 44 mm)
Weight:
Approximately 6.2 pounds (2.8 kg)

EMISSIONS
FCC Class A, CE Mark

WARRANTY
Five years, including power supply
Expansion Modules sold separately.

Signamax Connectivity Systems' 10/100BaseT/TX Ethernet Switches feature 16 or 24 10/100 ports, with the 065-7330 and 065-7340 models offering an optional 100BaseFX multimode or singlemode fiber module for longer distance network connections. Fiber optic multimode or singlemode expansion module options allow installation of fiber cabling anywhere within your existing copper-based network. These models transparently pass packets of up to 1,522 bytes, allowing their use in networks utilizing IEEE 802.1p and IEEE 802.1Q tagged packets. In addition, these models support 8K MAC addresses, and provide a true non-blocking switching architecture with full wire speed forwarding. The Signamax 065-7330, 065-7331, 065-7340, and 065-7341 Switches provide a lower-cost answer to today's computing needs and high bandwidth requirements.

10/100BaseT/TX Rack Mount Switches

10/100BaseT/TX Rack Mount Switches

PART NO.	DESCRIPTION
065-7330	16-Port 10/100BaseT/TX Switch with 1 slot for optional 100BaseFX Module
065-7331	16-Port 10/100BaseT/TX Switch
065-7340	24-Port 10/100BaseT/TX Switch with 1 slot for optional 100BaseFX Module
065-7341	24-Port 10/100BaseT/TX Switch
Expansion Modules for 065-7330 or 065-7340 models	
065-73SC	100BaseFX Expansion Module For 10/100 Switch - SC Multimode
065-73ST	100BaseFX Expansion Module For 10/100 Switch - ST Multimode
065-73MT	100BaseFX Expansion Module For 10/100 Switch - MT-RJ Multimode
065-73VF	100BaseFX Expansion Module For 10/100 Switch - VF-45 Multimode
065-73SM	100BaseFX Expansion Module For 10/100 Switch - SC Singlemode (15 km span)
065-73SMED	100BaseFX Expansion Module For 10/100 Switch - SC Singlemode (40 km span)
065-73SMXLD	100BaseFX Expansion Module For 10/100 Switch - SC Singlemode (75 km span)

SPECIFICATIONS

APPLICABLE STANDARDS
IEEE 802.3 10BaseT
IEEE 802.3u 100BaseTX
IEEE 802.3u 100BaseFX
IEEE 802.3x Flow Control

LED STATUS INDICATORS
Per Unit: Power
Per Port: LNK/ACT; 100 Mbps speed indicator

PHYSICAL CHARACTERISTICS
Models 065-7330 & 065-7340:
Dimensions: 17.3"W x 8.1"D x 1.75"H
(440mm x 205 mm x 45 mm)
Models 065-7331 & 065-7341:
Dimensions: 17.3"W x 5.5"D x 1.74"H
(440mm x 140 mm x 44 mm)
Weight: 6.2 lbs. (2.8 kg)

MEMORY
Packet Buffer Size:
Model 065-7330: 4 Mb
Model 065-7331: 512 Kb
Model 065-7340: 2 Mb
Model 065-7341: 2.5 Mb
shared packet buffers

PORTS
Models 065-7330 & 065-7331:
16 – Fixed 10/100BaseT/TX ports, RJ-45 connectors with Auto-MDIX (IEEE 802.3u Type 10BaseT & 100BaseTX)
Models 065-7340 & 065-7341:
24 – Fixed 10/100BaseT/TX ports, RJ-45 connectors with Auto-MDIX (IEEE 802.3u Type 10BaseT & 100BaseTX)
Maximum distance:
IEEE 802.3 10BaseT - 2-pair UTP Cat. 3, 4, 5 or better, up to 100 meters
IEEE 802.3u 100BaseTX - 2-pair UTP Cat. 5 or better, up to 100 meters
Models 065-7330 & 065-7340:
1 – Slot for optional 100BaseFX port, SC multimode (model 065-73SC), ST multimode (model 065-73ST) connectors (IEEE 802.3u Type 100BaseFX)
Maximum distance:
2,000 meters with 62.5/125 micron or 50/125 micron multimode fiber cabling

PERFORMANCE
Throughput: 148,800 pps at 100 Mbps
14,880 pps at 10 Mbps
(64-byte packets)
MAC Address Table Size: 8K entries

ENVIRONMENT
Operating:
Temperature: 32°F to 104°F (0°C to 40°C)
Relative Humidity: 10 to 90%, non-condensing
Altitude: 10,000 feet (3,048 meters)
Non-Operating/Storage:
Temperature: -13°F to 158°F (-25°C to 70°C)
Relative Humidity: 10 to 90%, non-condensing

EMISSIONS
FCC part 15 Class A
CE Mark Class A

WARRANTY
Five years, including power supply

Signamax Connectivity Systems' 8-Port 100BaseFX Fiber Switch is a plug-and-play Fast Ethernet switch that is the ultimate in easy 100Base FX fiber connection for simple multimode fiber applications. Standard 1U high non-blocking switch chassis supports eight multimode SC or eight multimode SC ports; each is equipped with a DIP switch for full or half-duplex mode selection.

8-Port 100BaseFX Fiber Switch

8-Port 100BaseFX Fiber Switch

PART NO.	DESCRIPTION
065-7310FSC	8-Port 100BaseFX Fiber Switch - SC
065-7310FST	8-Port 100BaseFX Fiber Switch - ST

SPECIFICATIONS

APPLICABLE STANDARDS
IEEE 802.3u 100BaseFX
IEEE 802.3x Flow Control

PORTS
Model 065-7310FSC:
8 – Fixed 100BaseFX ports, SC multimode
Model 065-7310FST:
8 – Fixed 100BaseFX ports, ST multimode
Maximum distance:
2,000 meters with 62.5/125 micron or 50/125 micron multimode fiber cabling

LED STATUS INDICATORS
Per Switch: Power
Per Port: Link/Activity, 100 Mbps detected, Full Duplex/ Collision

PERFORMANCE
Throughput: 148,810 packets per second (pps) (64-byte packets)
Switch Fabric Speed: 1.6 Gbps.
Address Table Size: 2,048 entries

PHYSICAL CHARACTERISTICS
Dimensions: 17.3"W X 8.1"D X 1.75"H *(440 mm x 205 mm x 45 mm)*
Weight: 6.2 lbs. (2.8 kg.)

EMISSIONS
FCC part 15 Class A,
CE Mark Class A, VCCI Class A

MOUNTING
Desktop or wall mounting

WARRANTY
Five years, including power supply

Signamax' Connectivity Systems' Compact Fiber Access Switches provide the right port interfaces you need for fiber-extended networks. The 065-7111 series of switches allows cost-effective fiber extension to small workgroups and Programmable Logic Controller (PLC) clusters. These switches support enterprise-level network extension to outlying buildings in a campus environment, and can also extend process control networks over fiber to production or control machinery equipped with PLCs at Fast Ethernet speeds. These switches, to allow administrative and production networks to coexist on the same fiber link transparently pass tagged VLAN and Quality of Service (QoS) packets used to separate and prioritize sub-networks.

Compact Fiber Access Switch

Compact Fiber Access Switches

PART NO.	DESCRIPTION
065-7111SC	Multimode Compact Fiber Access Switch - SC
065-7111ST	Multimode Compact Fiber Access Switch - ST
065-7111LC	Multimode Compact Fiber Access Switch - LC (Special Order)
065-7111MT	Multimode Compact Fiber Access Switch - MT-RJ (Special Order)
065-7111VF	Multimode Compact Fiber Access Switch - VF-45 (Special Order)
065-7111SM	Singlemode Compact Fiber Access Switch - SC (Special Order)
065-7111SMED	Singlemode Compact Fiber Access Switch - SC (Special Order)
065-7111SMXLD	Singlemode Compact Fiber Access Switch — SC (Special Order)

SPECIFICATIONS

APPLICABLE STANDARDS
IEEE 802.3 10BaseT
IEEE 802.3u 100BaseTX
IEEE 802.3u 100BaseFX
IEEE 802.3x Flow Control

PORTS
All Models:
7 – Fixed 10/100BaseT/TX Auto-MDIX ports, RJ-45 connectors;
(IEEE 802.3u Type 10BaseT & 100BaseTX)PLUS
Models 065-7111SC, 065-7111ST, 065-7111LC, 065-7111MT & 065-7111VF:
1 – Fixed 100BaseFX port, SC multimode (Model 065-7111SC), ST multimode (Model 065-7111ST), LC multimode (Model 065-7111LC), MT-RJ multimode (Model 065-7111MT), or VF-45 multimode (Model 065-7111VF) connectors.(IEEE 802.3u Type 100BaseFX)

Maximum distance:
2,000 meters with 62.5/125 micron or 50/125 micron multimode fiber cabling OR
Models 065-7111SM, 065-7111SMED, & 065-7111SMXLD:
1 – Fixed 100BaseFX port, SC singlemode connector. (IEEE 802.3u Type 100BaseFX)
Maximum distance:
Model 065-7111SM: 15 kilometers with 9/125 micron or 10/125 micron singlemode fiber cabling
Model 065-7111SMED: 40 kilometers with 9/125 micron or 10/125 micron singlemode fiber cabling
Model 065-7111SMXLD: 75 kilometers with 9/125 micron or 10/125 micron singlemode fiber cabling

LED STATUS INDICATORS
Per Switch: Power
Per Port: Link/Activity

PERFORMANCE
Throughput: 148,810 pps at 100 Mbps, 14,800 pps at 10 Mbps (64-byte packets)
Switch Fabric Speed: 1.6 Gbps.
Address Table Size: 2,048 entries

PHYSICAL CHARACTERISTICS
Dimensions: 10.0"W x 5.3"D x 1.4"H *(254 mm x 135 mm x 35 mm)*
Weight: 3.5 lbs. (1.6 kg.)

EMISSIONS
FCC part 15 Class A,
CE Mark Class A, VCCI Class A

MOUNTING
Desktop or wall mounting

SAFETY
UL 1950

WARRANTY
Five years, including power supply

Signamax Connectivity Systems' 10/1001000BaseT/TX Desktop Switches make it easy to increase user capacity and provide Gigabit Ethernet to devices in a small workgroup. Auto-sensing speed, duplex mode, and Auto-MDIX features automatically handles 10 Mbps, 100 Mbps, and 1000 Mbps users. State-of-the-art switches provide a straightforward upgrade from standard or Fast Ethernet, using your existing investment in hardware, cabling and personnel training. By combining simple installation with compact size, Signamax Gigabit Ethernet desktop switches virtually guarantee high network performance.

5 and 8-Port 10/100/1000BaseT/TX Desktop Switches

Model
065-7905

Model
065-7905 rear panel

5 & 8-Port 10/1001000BaseT/TX Desktop Switches

PART NO.	DESCRIPTION
065-7905	5-Port 10/100BaseT/TX Desktop Ethernet Mini Switch
065-7908	8-Port 10/100BaseT/TX Desktop Ethernet Mini Switch

SPECIFICATIONS

APPLICABLE STANDARDS
IEEE 802.3 10BaseT
IEEE 802.3u 100BaseTX
IEEE 802.3ab 1000BaseT
IEEE 802.3x Flow Control

PORTS
Model 065-7905:
5 - RJ-45 10/100/1000BaseT/TX Auto-MDI ports (IEEE 802.3 Type 10BaseT; 802.3u Type 100BaseTX; IEEE Type 1000BaseT)
Model 065-7908:
8 - RJ-45 10/100BaseT/TX Auto-MDI ports (IEEE 802.3 Type 10BaseT; 802.3u Type 100BaseTX; IEEE Type 1000BaseT)

PERFORMANCE
Throughput: 1,488,000 pps forwarding rate for 1000 Mbps
148,800 pps forwarding rate for 100 Mbps
14,880 pps forwarding rate for 10 Mbps
(64-byte packets)
Switch Fabric Speed:
Model 065-7905: 10 Gbps
Model 065-7908: 16 Gbps
Address Table Size:
Model 065-7905: 8K entries
Model 065-7908: 4K entries

PHYSICAL CHARACTERISTICS
Dimensions:
Model 065-7905: 6.7"W x 3.9"D x 1.14"H *(171 x 98 x 29 mm)*
Model 065-7908: 7.5"W x 4.7"D x 1.5"H *(190 x 120 x 38 mm)*
Weight:
Model 065-7905: 0.56 lbs. (254 g.)
Model 065-7908: 0.87 lbs. (395 g.)
Desktop or wall mounting, via slots in case

LED STATUS INDICATORS
Per Switch: Power
Per Port: Link/Activity, 100 Mbps, 1000 Mbps

SAFETY
Power supply UL & cUL listed

WARRANTY
Five years, including power supply

Signamax Connectivity Systems' Desktop Switches makes it easy to increase user capacity and let 10 and 100 Mbps devices directly communicate with each other. Full duplex mode multiplies total network capacity by providing up to 200 Mbps bandwidth per port rather than sharing 100 Mbps bandwidth between hub users, and segments networks for improved performance by forwarding traffic only to the users to whom the message was sent. Auto-sensing speed feature automatically handles both 10 Mbps and 100 Mbps users. 16-Port model has switch-selectable Quality of Service (QoS) prioritization on six ports.

State-of-the-art switches provide a straightforward upgrade from hub-based shared Ethernet using your existing investment in hardware, cabling and personnel training. By combining simple installation with dual-speed flexibility and scalable expansion, Signamax Ethernet switches virtually guarantee high network performance. Now in an even more compact size for easy placement.

5- , 8-, & 16-Port 10/100 Ethernet Desktop Switches

Model
065-7007

Model
065-7012

10/100 Ethernet Switch

PART NO.	DESCRIPTION
065-7007	5-Port 10/100BaseT/TX Desktop Ethernet Mini Switch
065-7012	8-Port 10/100BaseT/TX Desktop Ethernet Mini Switch
065-7030Q	16-Port 10/100T/TX QoS Desktop Ethernet Switch

SPECIFICATIONS

APPLICABLE STANDARDS
IEEE 802.3 10BaseT
IEEE 802.3u 100BaseTX
IEEE 802.3x Flow Control
IEEE 802.3p Classification of Service (Model 065-7030Q)
ANSI/IEEE 802.3 NWay Auto-negotiation

PORTS
Model 065-7007:
5 – RJ-45 10/100BaseT/TX Auto-MDI ports (IEEE 802.3 Type 10BaseT; 802.3u Type 100BaseTX)
Model 065-7012:
8 – RJ-45 10/100BaseT/TX Auto-MDI ports (IEEE 802.3 Type 10BaseT; 802.3u Type 100BaseTX)
Model 065-7030Q:
16 – RJ-45 10/100BaseT/TX Auto-MDI ports (IEEE 802.3 Type 10BaseT; 802.3u Type 100BaseTX)

PERFORMANCE
Throughput: 148,809 pps (64-byte packets)
Switch Fabric Speed:
Model 065-7007: 1.0 Gbps
Model 065-7012: 1.6 Gbps
Model 065-7030Q: 4.0 Gbps
Address Table Size:
Models 065-7007 & 065-7012: 1,024 entries
Model 065-7030Q: 8,192 entries

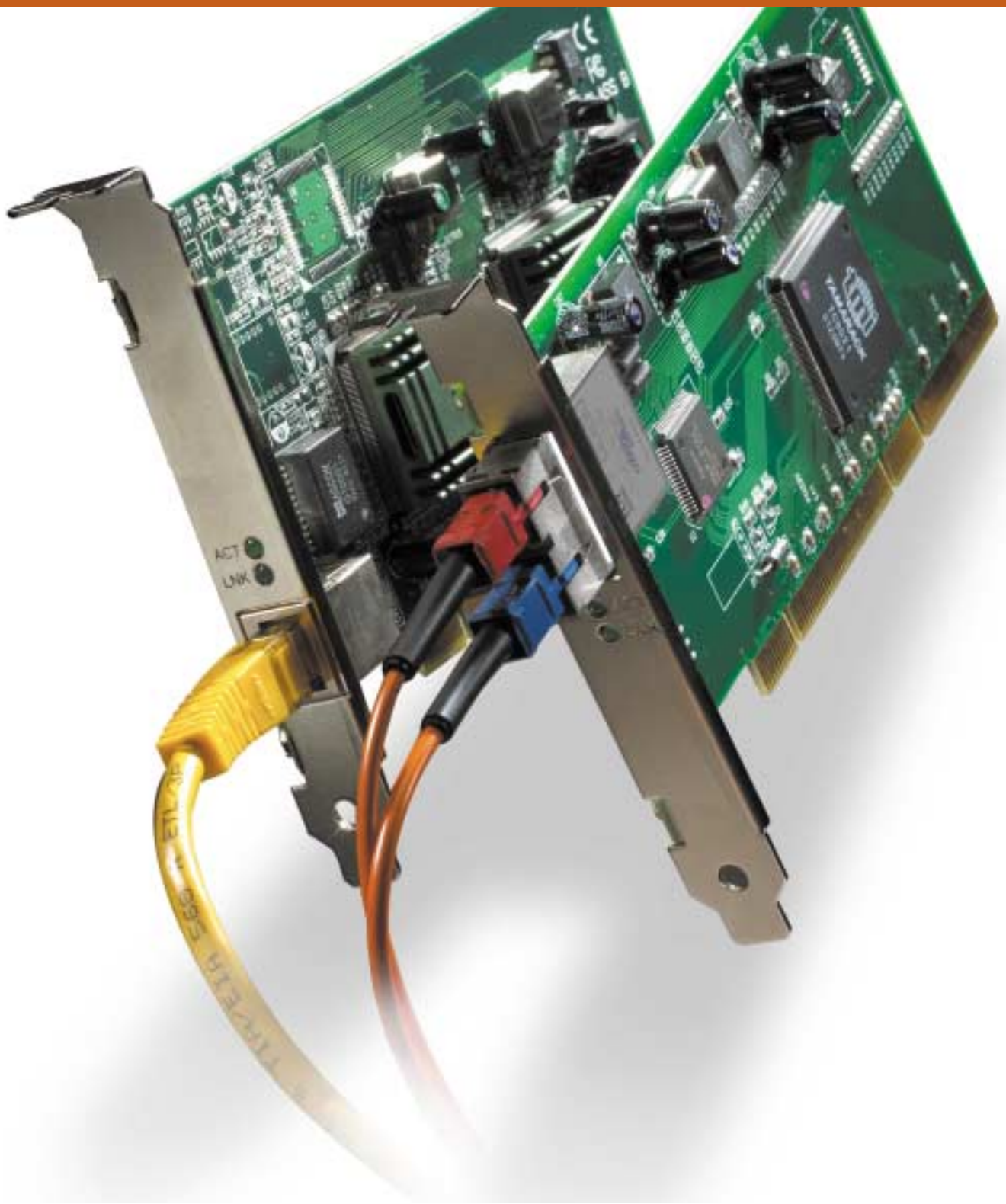
PHYSICAL CHARACTERISTICS
Dimensions:
Model 065-7007: 5.0"W x 2.5"D x 0.9"H *(127 mm x 64 mm x 23 mm)*
Model 065-7012: 6.5"W x 3.3 "Dx 0.9"H *(165 mm x 85 mm x 23 mm)*
Model 065-7030Q: 10.0"W x 5.3"D x 1.4"H *(254 mm x 135 mm x 35 mm)*
Weight:
Model 065-7007: 0.56 lbs. (254 g.)
Model 065-7012: 0.87 lbs. (395 g.)
Model 065-7030Q: 3.5 lbs. (1.6 kg.)
Desktop or wall mounting, via slots in case

LED STATUS INDICATORS
Models 065-7007 & 065-7012:
Per Switch: Power
Per Port: Link/Activity, Full Duplex / Collision, 100BaseTX speed selected
Model 065-7030Q:
Per Switch: Power
Per Port: Link/Activity, Full Duplex / Collision
QoS Status LEDs:
IP: Layer 3 IP Header priority on
VLAN: Layer 2 VLAN Tagging priority on
Port 1-6: Port 1-6-Port-based priority on

SAFETY
Power supply UL & cUL listed

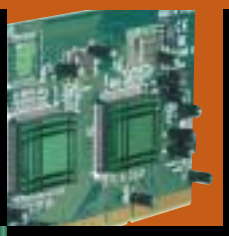
WARRANTY
Five years, including power supply

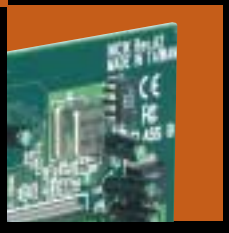
NETWORK CONNECTIVITY PRODUCTS



SIGNAMAX™
CONNECTIVITY SYSTEMS

Network Interface Cards





C

Gigabit Ethernet PCI Adapter Cards

100BaseFX Ethernet PCI Fiber NICs

Signamax Connectivity Systems' Gigabit network adapter cards are used wherever it is necessary to provide Gigabit Ethernet capability directly into a server or workstation. Models 098-2000SX and 098-2000T utilize the new high-speed 64/32-bit PCI Bus Mastering architecture and support IEEE 802.1p Quality of Service (QoS) and 802.1Q VLAN Tagging standards for complete network optimization. Model 098-2000SX supports the IEEE 802.3z 1000BaseSX specification over either 50/125 micron or 62.5/125 micron multimode fiber optic cabling via it's SC fiber connector. Models 098-2000T and 098-2000TR support the IEEE 802.3ab 1000BaseT specification in a Category 5E or better cabling system, using a standard RJ-45 jack. These cards also support 10BaseT and 100BaseTX transmission, allowing their use in networks evolving to Gigabit Ethernet.

Gigabit Ethernet PCI Adapter Cards

Model
098-2000TR

SPECIFICATIONS

STANDARDS COMPLIANCE
IEEE 802.3z 1000BaseSX (Model 065-2000SX)
IEEE 802.3ab 1000BaseT (Model 065-2000T)
IEEE 802.3u 100BaseTX (Model 065-2000T)
IEEE 802.3 10BaseT (Model 065-2000T)
IEEE 802.3x Flow Control
IEEE 802.1p Quality of Service (Models 098-2000SX & 098-2000T)
IEEE 802.1Q Tagged VLAN (Models 098-2000SX & 098-2000T)
PCI Specifications Revision 2.2

CONNECTOR
Model 098-2000SX: SC multimode 1000BaseSX. Requires either 62.5/125 micron or 50/125 micron multimode fiber optic cable.
Models 098-2000T & 098-2000TR: RJ45 10/100/1000BaseT/TX with Auto MDI/MDI-X Determination. Requires Category 5e cabling or better.

ARCHITECTURE
Auto I/O Address Configuration
Auto Full & Half Duplex modes
Models 098-2000SX & 098-2000T:
64/32-bit PCI Bus Mastering with Auto PCI
Model 098-2000TR:
32-bit PCI Bus Mastering

DIAGNOSTIC LEDS
Models 098-2000SX & 098-2000T:
ACT: Network detected + data transmitted/received
LNK: Connection detected
Model 098-2000TR:
ACT: Network detected + data transmitted/received
10: Connection detected at 10 Mbps
100: Connection detected at 100 Mbps
1000: Connection detected at 1000 Mbps

WARRANTY
Lifetime Limited Warranty

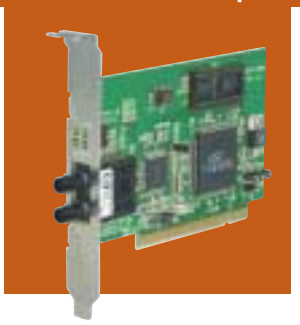
Gigabit Ethernet PCI Adapter Cards

PART NO.	DESCRIPTION
098-2000SX	1000BaseSX 64/32-Bit PCI Network Adapter Card - SC Multimode
098-2000T	10/100/1000BaseT/TX 64/32-Bit PCI Network Adapter Card
098-2000TR	10/100/1000BaseT/TX 32-Bit PCI Network Adapter Card

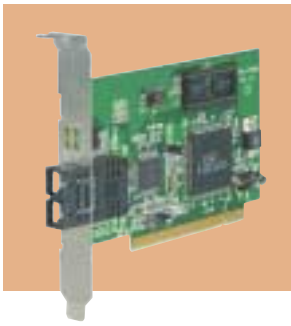
Signamax Connectivity Systems' 100BaseFX Fiber Optic Network Adapter Cards offer you more network bandwidth, better data security, and longer transmitting range. Fiber network adapter cards are the key to a complete fiber-to-the-desktop solution for businesses requiring the utmost in data security. In addition, fiber to the workstation is the answer to Radio-Frequency Interference (RFI) and Electro-Magnetic Interference (EMI) generated from heavy machinery in industrial applications that cause repeated data resends and reduced transmission efficiencies.

These network adapters are available with ST, SC, LC, MT-RJ, or VF-45 multimode fiber connectors. SC singlemode and WDM single fiber singlemode models are also available.

100BaseFX PCI Fiber Optic Network Adapter Cards



Model
098-1100FSTR



Model
098-1100FSMR

Model
098-1100FMTR

Model
098-1100FVFR

100BaseFX PCI Fiber Optic Network Adapter Cards

PART NO.	DESCRIPTION
098-1100FSCR	100BaseFX PCI Fiber LAN Adapter,Multimode SC Connector
098-1100FSTR	100BaseFX PCI Fiber LAN Adapter, Multimode ST Connector
098-1100FLCR	100BaseFX PCI Fiber LAN Adapter, Multimode LC Connector
098-1100FMTR	100BaseFX PCI Fiber LAN Adapter, Multimode MT-RJ Connector
098-1100FVFR	100BaseFX PCI Fiber LAN Adapter, Multimode VF-45 Connector
098-1100FSMR	100BaseFX PCI Fiber LAN Adapter, Singlemode SC Connector – 15 km span
098-1100FSMEDR	100BaseFX PCI Fiber LAN Adapter, Singlemode SC Connector – 40 km span
098-1100FWDMA	100BaseFX PCI Single Fiber LAN Adapter, Singlemode WDM Connector, (1310nm TX/1550nm RX) — 20 km span
098-1100FWDMB	100BaseFX PCI Single Fiber LAN Adapter, Singlemode WDM Connector, (1550nm TX/1310nm RX) — 20 km span

SPECIFICATIONS

STANDARDS COMPLIANCE
IEEE 802.3u 100BaseFX
PCI Specification 2.2
Supports Full and Half Duplex Operation.

INSTALLATION
Plug 'n Play

DRIVER SUPPORT
Novell NetWare, Server 3.x/4.x/5.0. Client 32, Windows 2000, 95, 98, NT3.51, NT4.0, WFW, Microsoft LAN, IBM LAN, OS/2 Warp and LAN Server, IBM Comm. Manager. FTP PC/TCP, SUN PC-NFS, Packet driver, SCO UNIX 4.x/5.x, Linux.

ARCHITECTURE
32-Bit PCI Bus Mastering with auto PCI
Auto I/O Address configuration.
Boot ROM socket for remote booting.

DIAGNOSTIC LEDS
LINK: Fiber connection detected.
ACT: Data transmitted/received

EMISSIONS
FCC Class A and CE approved

WARRANTY
Lifetime Limited Warranty.

INCLUDES
Driver Disk and User Manual.

NETWORK CONNECTIVITY PRODUCTS

SIGNAMAX™
CONNECTIVITY SYSTEMS

KVM Switches

8-Port Cascadable KVM Switch

2, 4 & 6-Port KVM Switches

2-Port Compact KVM Switch

KVM Hydra Cables

Signamax Connectivity Systems' CommandView offers on-screen control in a full-featured, high performance KVM Switch. The on-screen display feature makes it easy to configure and control up to 64 computers from just one standard monitor, keyboard and mouse. You can name each computer system, making it easy to know which particular computer is currently under your control.

Expands to 8 banks of 8 CPUs each, using the included daisy chain cable; no CPU ports are lost to expansion. Individual port processors for flawless CPU booting. Automatically scan each computer at user selectable intervals. Dedicated keyboard and mouse emulation. Intellimouse support plus PS/2 mouse conversion makes CommandView fully compatible with both PS/2 and AT style computers.

8-Port Cascadable KVM Switch

Model
098-8080
Rear Panel

8-Port KVM Switch

PART NO.	DESCRIPTION
098-8080	8-Port KVM Switch with On-Screen Control - PC-AT and PS/2

SPECIFICATIONS

SELECTION METHOD
Push-button, keyboard hot keys, or On-Screen Display (OSD) menu
Automatic or manual scan between powered-on computers; user selectable intervals. Audio alert to confirm switching

CONNECTIONS
CONSOLE — HDB15 female / mini DIN6 female /mini DIN6 female; 3.5mm Stereo socket (audio) /3.5mm Mono socket (microphone)
PC PORTS — HDB15 male / mini DIN6 female / mini DIN6 female / DB9 female; 3.5 mm Stereo socket (audio) / 3.5 mm Mono socket
SLAVE OPERATION — DB37 female; daisy chain cable included. Supports up to 8 levels; maximum 64 PCs

MOUSE SUPPORT
PC-AT, PS/2 Keyboard, PS/2 Mouse including MS IntelliMouse.
Supports MS Serial Mouse via conversion; only PS/2 Mouse is needed for console

ON-SCREEN DISPLAY
Control any connected PC with user-definable channel names up to eight characters long

WARRANTY
Five years, including power supply

Signamax Connectivity Systems' CommandView is the perfect solution for convenient control of up to six computers from just one keyboard, monitor, and mouse. Quick, simple connection and you're in total control. No software required; completely plug & play. Select any computer with push-button ease. Auto Scan at user-selectable intervals. Dedicated keyboard and mouse emulation. Intelligent mode operation ensures each keyboard's LED status & typematic rates are automatically restored.

Model
098-8040

Model 098-8060

KVM Switches

PART NO.	DESCRIPTION
098-8020	2-Port KVM Switch - PC-AT and PS/2
098-8040	4-Port KVM Switch - PC-AT and PS/2
098-8060	6-Port KVM Switch - PS/2 Only

Model 098-8060
Rear Panel

SPECIFICATIONS

SELECTION METHOD
Push-button or keyboard hot keys. Automatic or manual scan between powered-on computers; user selectable intervals. Audio alert to confirm switching

CONNECTIONS
Model 098-8020:
(Console) - Video [15-pin female],
PS/2 Mouse [6-pin mini-DIN female],
AT Serial Mouse [DB-9 male],
AT Keyboard [5-pin DIN female].
(CPU 1 & 2) — Video [15-pin male],
PS/2 Mouse [6-pin mini-DIN female],
AT Serial Mouse [DB-9 female],
AT Keyboard [5-pin DIN female]. One (1) PS/2 Keyboard Adapter [6-pin mini-DIN female to 5-pin DIN male]
Adapter included in package

Model 098-8040:
(Console) - Video [15-pin female], PS/2 Mouse [6-pin mini-DIN female], PS/2 Keyboard [6-pin mini-DIN female], AT Keyboard [5-pin DIN female].
(CPU 1-4) — Video [15-pin male],
PS/2 Mouse [6-pin mini-DIN female],
AT Serial Mouse [DB-9 female],
AT Keyboard [5-pin DIN female],
PS/2 Keyboard [6-pin mini-DIN female]

Model 098-8060:
(Console) - Video [15-pin female], PS/2 Mouse [6-pin mini-DIN female], PS/2 Keyboard [6-pin mini-DIN female]. (CPU 1 - 6) — Video [15-pin male], PS/2 Mouse [6-pin mini-DIN female], PS/2 Keyboard [6-pin mini-DIN female]

MOUSE SUPPORT
Model 098-8020: PC-AT & PS/2 mouse at console and CPUs
Model 098-8040: PS/2 Mouse at console, PC-AT & PS/2 mouse at CPUs; Microsoft Intellimouse supported
Model 098-8060: PS/2 mouse only

WARRANTY
Five years, including power supply

Signamax Connectivity Systems' CommandView is the perfect solution for convenient control of two computers from just one keyboard, monitor, and mouse. Quick, simple connection and you're in total control. No software required; completely plug & play. Select any computer with push-button ease. Auto Scan at user selectable intervals. Dedicated keyboard & mouse emulation. Intelligent mode operation ensures each keyboard's LED status & typematic rates are automatically restored.

2-Port Compact KVM Switch

Model 098-8025
Rear Panel

SPECIFICATIONS

SELECTION METHOD
Push-button or keyboard hot keys.
Automatic scanning between CPUs.
Audio alert to confirm switching.

CONNECTIONS
CONSOLE — HDB15 female/mini DIN6 female/mini DIN6 female
PC PORTS — HDB15 male/mini DIN6 female/mini DIN6 female DB9 female

MOUSE SUPPORT
PS/2 Keyboard, PS/2 Mouse, including MS IntelliMouse.

WARRANTY
Lifetime Limited Warranty

KVM Switches

PART NO.	DESCRIPTION
098-8025	2-Port KVM Switch - PS/2 Only

Tangle-proof, single-cable design combines monitor, keyboard and mouse cables into a single, flexible harness.

Available in two models and in a variety of lengths for connection between CommandView KVM switches and your computers, and also as an extension between your monitor, keyboard, and mouse to the CommandView KVM switch.

KVM Hydra Cables

KVM Hydra Cables

PART NO.	DESCRIPTION
C-65T-6B	6’ HD15M-F, (2) DIN6M-F, from Monitor, PS/2 Keyboard, PS/2 Mouse to KVM Switch
C-65T-10B	10’ HD15M-F, (2) DIN6M-F, from Monitor, PS/2 Keyboard, PS/2 Mouse to KVM Switch
C-69T-6B	6’ HD15M-F, (2) DIN6M-M, Monitor, PS/2 Keyboard, PS/2 Mouse ports to CPU
C-69T-10B	10’ HD15M-F, (2) DIN6M-M, Monitor, PS/2 Keyboard, PS/2 Mouse ports to CPU
C-69T-20B	20’ HD15M-F, (2) DIN6M-M, Monitor, PS/2 Keyboard, PS/2 Mouse ports to CPU
C-69T-30B	30’ HD15M-F, (2) DIN6M-M, Monitor, PS/2 Keyboard, PS/2 Mouse ports to CPU

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